

# Manufacturers Record

Reg. U. S. Pat. Office

EXPONENT OF AMERICA

Devoted to the Upbuilding of the Nation Through the Development  
of the South and Southwest as the Nation's Greatest Material Asset

Vol. XCVI No. 24 }  
Weekly. }

BALTIMORE, DECEMBER 12, 1929.

{ Single Copies, 20 Cents.  
\$6.50 a Year. }

## The Wall Street Panic a Blessing to the Country

SOME good will unquestionably come out of the business conferences that have recently been held in Washington. It is well that a considerable portion of the business forces of the country should be organized for a definite, aggressive upbuilding of the country and the creation of employment.

But these conferences have been held rather late in the day. The breakdown of the wild stock speculation which has been made the excuse for these conferences was not entirely responsible for any business recession. Despite all the over-optimistic statements put forth months ago, it was evident to many close students of affairs that there was a slowing down of business and a serious depression in some lines. The attention of President Hoover was repeatedly called to that situation and definite proof given of the unsound conditions then existing. The Department of Commerce, however, stressed the point of the heavy production of steel and of automobiles as proof to the contrary of information sent to President Hoover on the subject. In reply it was said that all the statistics given by the Department of Commerce were fully known and their measure adequately taken. It was said in this reply that the sale of automobiles, mostly on credit, was no proof of increasing prosperity, but on the contrary would rather indicate through careful investigation that more automobiles were being produced than could be sold advantageously, except by loading the buyers of the country with a vast indebtedness. So long as automobile production was running at full speed, the consumption of iron and steel was necessarily heavy and traffic on the railroads naturally grew. But from all parts of the country there came to the MANUFACTURERS RECORD, and these statements were passed on to Washington authorities, actual facts in regard to the great amount of unemployment throughout the land, and it was strongly urged that every effort of the government should then be made to meet this situation by active construction work by the Federal Government wherever that was feasible.

The statements now being put out to the effect that there is a depression in business and that this is due to the collapse of stock market speculation are wholly unjustified. Every thoughtful man familiar with the history of the past in finance and in industry should have known that the Wall Street gamble was seriously hurting business and that until it ceased there would be decreasing business activity, lessened employment and lessened profit for the people at large. No sooner had the Wall Street over-inflated balloon collapsed than business people of the country began to take heart and then say the time had come when cheaper money would make it possible for a revival of general business activities. That Wall Street was permitted month after month to drain the country of every available dollar to be loaned on call at anywhere from 10 to 20 per cent was an anomaly in finance unlike anything that this country had heretofore seen. In

times past we have had our panics and they have generally been preceded by enthusiastic booming to the effect that this particular boom, whether of real estate or stocks, was on a more solid foundation than any preceding boom, but even sensible people were caught in the public's stampede to unload, when once the break came.

The country's business salvation lay in the fact that we had no large inventories or over-stocked shelves and frozen assets. The greater efficiency of our transportation facilities, enabling us to buy and get goods when needed, saved the nation from a great business debacle; there is no doubt of that.

We rejoice in the effort that President Hoover, as a business man, is making to stimulate industry of all kind and thus create employment for the many idle people in the country, even though Washington authorities months ago ought to have seen the real situation as to unemployment and as to general business depression at that time. Figures do not lie, it has been said, but liars figure, and intentionally or unintentionally—swept perhaps off their feet by figures which told of the extent of our automobile and iron and steel production—supposed authorities did not take into account that the high call rates for gambling money were stopping construction and the sale of municipal securities except at very high rates, and thus halting much municipal development that ought to have been under way during the last 12 months.

Nearly a year ago, in urgently warning the country against the inevitable outcome of speculation, the MANUFACTURERS RECORD said that if the Federal Reserve Board would put its discount rate to 4 per cent it would compel the abandonment of the exorbitant call rates for money in New York, and thus stop the draining of money from all parts of the country. Business concerns which by the sale of securities the last few years had placed themselves in a financially sound condition, and were no longer dependent upon the banks, loaned their surplus money out freely at these high rates, often withholding from their stockholders money that should have been paid out in dividends, taking the position that they could make more money by lending funds at 15 or 16 or 18 per cent than they could safely earn in their own business operations, a false basis of responsibility to their stockholders and to the public.

While the Washington conferences will help to create a spirit of optimism, we seriously doubt if they have not caused many people to believe that the situation must be very serious indeed when it is necessary to assemble so many of the business leaders of the country, in order to give assurance that all is well.

As to the outlook the MANUFACTURERS RECORD is optimistic in the extreme, and we believe properly so, and this optimism is based on the fact that for the last few years many con-

struction activities that ought to have been carried on were halted by reason of the drawing of surplus money to Wall Street. Many men who should have been centering their work on their own business spent their time in watching the stock ticker and in risking every dollar in speculation. That period has passed. The country has now come down to earth and this vast nation, with its population of 120,000,000, the most virile, active, aggressive people on the face of the earth, unhampered by the varying laws and relations of Europe and other regions—where jealousies and bitter hostilities exist—will go forward for a larger development and a future infinitely greater than any that could have been brought about by the wild gamble in New York led by financiers blind to the situation or by others who were seeking to gather in all the fleece from all the lambs in the country.

Then on with a spirit of optimism; on with sound, sane, safe construction activities; on with liberal expenditures by the Federal Government for the work which should be done. Indeed, if the \$160,000,000 decrease of income taxation by the Federal Government had been thrown into construction work it would have accomplished far more for the good of the people at large and for the prosperity of the nation than in the present plan of reducing taxation for the limited number who pay an income tax.

### AMERICAN PLAN—OPEN-SHOP CODE FOR INDUSTRIAL FREEDOM

**I**N a radio talk A. C. Rees, chairman of the American Plan—Open-Shop Conference at its annual meeting held in Oklahoma City recently, reiterated the underlying principles for which that organization is fighting.

In reviewing some of the subtle, the hidden and the open attacks by forces which menace the social, industrial and political safety of America, striking alike at public and private institutions, and individual freedom, Mr. Rees closed his address with this ringing declaration:

"Do you know of any community in the United States that has escaped their influence? Have you in the South been immune? What is going on today in your great textile industry? What has happened at New Orleans? What has San Francisco experienced? Let us not forget the Herrin massacre. Go where you will, you will find them at work. They constitute America's greatest menace—greater than all international questions, tariffs, war debts, agricultural problems and all others combined.

"And the answer?

"To rise up courageously and defy this well-organized army of destruction lest they succeed in robbing us of our liberty before we act. A contest indeed between freedom and despotism.

"Men of unquestioned Americanism are already gathering, as forces of defense. They are the watchmen on the towers. It is they who have exposed the plans and purposes of these subversive forces that are growing in audacity as they increase in numbers.

"The American Plan—Open-Shop Conference is one of the agencies devoted to the cause of constitutional government, to law and order and to a respect for the rights of the individual. It is attempting to arouse the consciousness of America to an appreciation of the peril. It is calling upon the intelligence of America to unite and act. It is calling upon America to analyze its own soul; to sense the lurking dangers of apathy and indifference. It is calling upon the people at large to read and interpret the signs of the times, to watch the trends and the movements in their own communities that will determine America's destiny; to remain open-eyed and vigilant and to unite in a determined effort to

lay a staying and controlling hand upon those who for their own aggrandizement and unrighteous greed for power would enter the very sanctuary of our government and there write the last chapter of our freedom.

"Let me present the industrial code which reflects the ideals of this great movement for industrial freedom. Measure it, if you will, with your own yardstick of Americanism. Here it is:

- "1. In all relations between employers and employees in industry the interests of the general public must always be kept paramount.
- "2. It should be the recognized duty and responsibility of employers to protect and promote the health, safety and well-being of their employees.
- "3. Men should be hired and retained on the basis of their efficiency and need for their services and not for their affiliation or non-affiliation with any organization.
- "4. By virtue of their advantageous position in experience, training and influence, employers should assume the leadership in stimulating and encouraging a spirit of friendship, institutional loyalty and co-operation between themselves and their employees.
- "5. Both employers and employees have the right to organize, but only for legitimate, lawful purposes.
- "6. Any organization, either of management or men, that condones, teaches or practices the lowering of personal efficiency, the limitation of output, or discrimination against men on account of their affiliations; or that results in creating discord between employees or between employers and employees, is not entitled to recognition and has no place in industry.
- "7. The sanctity of contract, whether actual or implied, and the protection of property—be it physical or the intangible property that constitutes a man's skill and knowledge—should be respected and honored both by employers and employees.
- "8. All controversies as between management and men should be settled by peaceful methods and by those who are actually engaged in the industry and who will be personally affected by the decision.
- "9. Such a settlement should be made either direct by the individuals concerned, or through their representatives, chosen from within the institution.
- "10. In theory as well as in practice, employees should recognize, and employers should defend, the right of any person to learn, enter upon or pursue any desired trade or profession for which he may be fitted.

"We, as American citizens are asked to ponder this picture. We have intuitive sense of justice and fairness. We possess native intelligence and courage in abundance. In the name of all we hold sacred, let us employ them now. Let not our passion for peace and comfort lull us into inaction. This is a call to all loyal, thoughtful, intelligent, liberty loving Americans to work while it is still day."

### A DUTY AMERICANS OWE TO THEMSELVES AND THEIR CHILDREN

**M**RS. Clarence M. Busch, one of the editors of The Red Fog, writes:

"Your editorial review of The Red Fog in the MANUFACTURERS RECORD continues to prompt many orders for our book and we are indeed grateful to you. These orders come from all parts of the country and in most cases from men in high position, whose interest may waken a wide response."

Once more we urge all thoughtful Americans to send to the National Patriotic League, Union Trust Building, Washington, D. C., for a copy of The Red Fog, price \$1.25; and to The Tower Press, Inc., 180 N. Michigan Ave., Chicago, for a copy of Sinister Shadows. These two books illuminate the whole movement of Communism abroad and in this land, a situation which should be fully understood. Not only do patriotic men and women owe the study of these books to



themselves and to their country, but pre-eminently do they owe it to their own children and to all other children in this land, for upon the rising generation depends the future of the world.

### HAS THE STOCK MARKET BREAK MADE IT EASIER TO FLOAT GERMAN BONDS IN THIS COUNTRY?

**W**HILE the stock market was booming the bond market was declining. Many investors seemed to have reached the conclusion that it was wiser to invest in stocks than in bonds, and under these conditions far-seeing men realized that it would be well-nigh impossible to float in this country any large proportion of the German indemnity bonds which are to be issued.

Even prior to the break in the stock market there were rumors here and there to the effect that some of the great financial interests of the world would not object to seeing a breakdown of stock speculation, in order to create a better situation for the floating of German reparation bonds in this country. Already there is an open discussion of the probability that these German bonds can be placed in the United States to better advantage than if stock speculation had continued. If the American people, after all their experience with German financial operations and the flooding of the world with German marks—which were afterwards repudiated—invest in German bonds they will show a high degree of unwisdom.

There is, however, one phase of this situation that is of interest. It is illustrated in a statement made to the editor of the *MANUFACTURERS RECORD* some months ago by a prominent banker, who said that he had taken for his company some underwriting in which he did not have much faith. When asked why he had done so, he replied that if he did not take whatever underwriting was offered him by great banking interests in New York, he would never have a chance to get any underwriting issued by them. "Any concern," said he, "which declines to take a share of underwriting with the view of placing it among its clients would never get another opportunity from the same concern when there is underwriting they would like to have." Another banker in discussing the subject stated that a financial company with which he was connected made it a rule never to take any underwriting, for the reason that they knew if they took any at all they would have to take whatever was offered them, even if some of it in their opinion was most undesirable.

If may well be questioned whether the placing of German reparation bonds in this country will be handled on that basis, and whether any great banking house or houses will undertake to offer the underwriting of German bonds to investment houses throughout the country that "will never get an opportunity at other underwriting from the same concern" if they fail to take a share of that. When these investment houses accept underwriting from great banking houses they of necessity must find some means of placing these securities with their customers, even though they may at times question their desirability as safe investments. This country may, therefore, well watch with great concern the question as to whether German indemnity bonds will shortly be offered in America and whether the conditions here indicated will prevail.

Municipal bonds in the United States have gone begging and public work made possible by the sale of such bonds has been retarded. All available capital now is needed in this country for bond purchases and there is no reason for the investing public to go outside of the United States to buy bonds.

### B. F. YOAKUM, AN EMPIRE BUILDER

**T**HE life of B. F. Yoakum, who died recently, is suggestive of the power and energy of the men who as pioneers have created much of the development of this country, and pre-eminently of its railroad systems. Mr. Yoakum, according to an interesting account in the *New York Herald Tribune*, was a broad-shouldered, six-foot native of Texas. He was one of America's great empire builders. At one time he was president of railroads having an aggregate of 17,000 miles. He began his railroad career as a rodman, but he went on from that from one position to another until he built thousands of miles of railroads and turned a dreary, barren section of Texas into a veritable Garden of Eden. For the Rio Grande section of Texas Mr. Yoakum did what Henry M. Flagler did for the east coast of Florida.

As our readers know, the passion of Mr. Yoakum's life for many years was the development of the agricultural prosperity of the country. He wrote and spoke unceasingly on that subject. Though a life-long Democrat, he fought against Governor Smith last year solely, he said, because of the farm relief question. Mr. Yoakum advocated a nation-wide marketing system under the control of the farmers themselves, and often wrote for the *MANUFACTURERS RECORD* on that subject. He never waited for a country to develop the need of transportation. He laid his rails first, and farms, industries, towns and cities followed as a natural result.

"Before he ran a railroad through the Gulf Coast country of Texas, from Houston to the Rio Grande, there were vast stretches of mesquite and cacti along the route he had chosen. Some of that land, then worth no more than \$3 an acre, now yields hundreds of dollars an acre a year to the farmers who till it, and not a little of it is making millionaires by giving up oil and natural gas. The development of the lower Rio Grande Valley from a land of rattlesnakes and cactus to one of the most prosperous truck-growing areas in the United States was another of Mr. Yoakum's dreams come true."

The reference of the *Tribune* to the fact that much of the land opened up in southwest Texas by Mr. Yoakum's railroad building was not at that time worth \$3 an acre, reminds us of a story told by a relative who went from Virginia in 1870 to Texas. At Galveston he met a distinguished judge whom he had known in Virginia, and who hearing that this friend was headed for San Antonio, said to him:

"You will be offered thousands of acres of land in southwest Texas at ten cents an acre, but don't buy it. It is not worth that." The relative to whom the statement was made lived to regret that he had followed this pessimistic advice and failed to buy at least a few thousand acres at ten cents an acre, for that was the prevailing price of land which today is worth in many cases from \$100 to \$1000 an acre, and where if oil has been discovered it is worth many times the higher figure.

The pessimist is not always a safe guide.

B. F. Yoakum was an optimist. Like Henry Flagler, he could look into a desert and picture how it could be made to bloom and blossom with fruit and vegetables, and how humanity could be benefited by those who produced and by those who had the opportunity of consuming their products.

Out of that lower Rio Grande valley, with its mesquite, cactus, desert-looking conditions when Mr. Yoakum projected one of his roads through that section, there is being developed one of the greatest fruit and trucking sections of America, and it is said that last year 18,000 carloads of winter vegetables went North and East out of the lower Rio Grande Valley.

Yoakum, like Henry Flagler, created enormous prosperity for others; and the men who do the things that they and others like them do, however much wealth they may themselves secure, rarely if ever get a fair percentage of the enormous wealth they create for the good of humanity.

# Hit Continuously to Create and Maintain National Prosperity

## *Manufacturers Record*

Exponent of America

Richard H. Edmonds  
Editor

Baltimore  
December 2, 1929.

Dr. Julius Klein,  
Department of Commerce,  
Washington, D. C.  
My dear Dr. Klein:

Your recent statement regarding the advisability of continued advertising on the part of business people, prompts me to offer a few suggestions which I hope you will be able to impress through the newspapers and upon all the business men with whom you come in contact.

I simply want to emphasize the value of advertising, as so clearly set forth by you, with the statement that the greatest creative force that can possibly be put into effect for developing a spirit of optimism, and thus create business and general prosperity, is broad and comprehensive advertising on the part of manufacturers, merchants and business men generally.

The moment the retail merchants of a town begin to lessen their advertising they cause a spirit of pessimism to prevail throughout the community, and thus lessen their own prosperity. The moment a great business concern, whether it be manufacturing automobiles or machinery, or any other line of goods, decides to lessen its advertising it makes certain the creation of a spirit of pessimism on the part of business interests.

Let me say that in advocating advertising as a creator of prosperity and of business, I can do so from an unselfish standpoint, fully realizing after fifty years of newspaper work that broad advertising stimulates the thought of the people, stimulates their optimism and creates prosperity.

It is needless to say that the marvelous growth of the Pacific Coast has been due to the comprehensive plans and the liberal expenditure of the business people and the transportation interests of that section. They have made the Pacific Coast what it is by pouring out money freely to set forth its advantages. Similar results have followed in the South wherever the transportation interests and the communities themselves have carried on persistent, aggressive, liberal advertising. Every dollar wisely expended in this way yields a larger profit than dollars invested in any other way.

When large business interests begin, by reason of somewhat lessened business or by fear of the future, to reduce their advertising instead of enlarging it, they begin immediately to sow the seeds of distrust which bring forth a harvest of depression.

Let me give you a specific illustration of the value of continued advertising, and the destruction which follows a change of policy. Forty years ago St. Jacob's Oil, a Baltimore product, was probably more widely and intelligently advertised than any other remedy of that day. That company was spending \$500,000 a year in publicity work, and its business was enormously increasing. But the guiding spirit of the concern died, and by reason of family connections a wholesale merchant, who had never advertised, became president. He saw this \$500,000 going out, and he thought to himself that that money could be saved and added to the earnings of the company, believing that the business was so well established that it would continue to be successful. He stopped the advertising campaign, and within a few years one of the best known remedies of the age, one which had real merit, went into bankruptcy, and the formula was sold, as I remember it, at auction for a few thousand dollars. Similar illustrations could be given almost without end of failures of this kind when advertising was discontinued.

At the present moment, when Mr. Hoover is trying to stimulate the entire business forces of the country with a spirit of optimism, justified by the boundless resources of this country, you cannot I think do a greater good to strengthen Mr. Hoover's hands and to bring to the country the prosperity which he so much desires, than in every way possible to stress the importance of advertising as a business creator.

I believe if the concerns which during the last twelve months have lessened their advertising, some by reason of the prosperity which they were enjoying, feeling that advertising was not a necessity, and some by reason of the poor business which they were doing making them feel that they could not afford advertising, could by you or others be stirred into a spirit of optimism voiced through broad advertising work, there would soon be seen throughout this country a spirit of optimism bearing fruit in an abundant harvest of business and of prosperity.

I am thus pressing this matter upon you because, like President Hoover, I have longed to see poverty lessened and employment created; and poverty can only be lessened by the enlargement of employment. It is within your power to be of invaluable service to President Hoover and to the country at large in pressing upon the attention of the people of the land the point which you have already so strongly made as to the importance of continued advertising. It is because you have taken that position that I am emphasizing the wisdom of your policy in this letter.

Sincerely yours,

RICHARD H. EDMONDS.



## \$100,000,000 Expansion Program for North American Company

Numerous Important Projects Under Way and Proposed in Scattered Sections of Country

St. Louis, Mo.—A \$100,000,000 construction budget, including provisions for additions to the Cahokia plant near St. Louis, large expenditures for the hydro-electric project planned on the Osage River at Bagnell, Mo., and a large addition to the Benning plant at Washington, D. C., has been announced for the North American Co., New York, by Frank L. Dame, president of the company. These estimates are for new work authorized, including projects launched in 1929 in connection with programs falling naturally into two or more years. Of the total amount it is estimated that \$57,000,000 will be expended during 1930, as compared with \$50,000,000 expended during 1929. These figures do not include amounts for maintenance, which for 1930 will approximate \$11,000,000.

The Bagnell dam project is described as the largest undertaking involved in the budget, by Louis H. Egan, president of the subsidiary constructing it, the Union Electric Light & Power Co., St. Louis. Construction on the project, according to that official, will be finished by October, 1931, at which time a turbine section will be added to the Cahokia plant increasing its horsepower by 100,000.

Construction of the \$2,500,000 addition to the Benning plant at Washington, D. C., is exclusive of the \$5,900,000 expansion program of the Potomac Electric Power Co. in Washington. Projects included under this program are: Improvements and extensions of electric distribution system; office building, Tenth and E streets, \$2,685,000, and mechanical equipment, \$46,000.

### Plan \$1,000,000 Power Line

New Orleans, La.—Rights-of-way have been obtained for a 110,000-volt transmission line from Roseland in Tangipahoa Parish to New Orleans, linking this city with the superpower system serving Louisiana, Mississippi and Arkansas. Roseland is the present Southern terminus of the high power lines of the Louisiana Power and Light Co. and the Mississippi Power and Light Co., extending from the big steam-electric plant at Sterlington, La. The New Orleans extension will come southward through Hammond and Ponchatoula, to Sorrento and along the Louisiana and Arkansas Railway to the Bonnet Carré spillway site, where it will cross the Mississippi River and follow the west bank to Gretna. By the use of trans-

formers at Gretna, the current will be stepped down to 13,200 volts and transmitted across the river by six cables to the Market street station of the New Orleans Public Service, Inc.

### \$350,000,000 for Texas Improvement Projects in 1930

Austin, Tex.—The outlay for public improvements in Texas in 1930 will reach a total of \$350,000,000, according to Governor Moody. The Governor declares that although a survey indicated that only \$350,000,000 would be expended, he is of the opinion that the figure will be nearer \$500,000,000. The survey is said to have revealed that 30 principal cities in the state would expend \$250,388,000 for public works during the year and that this amount represented only about two-thirds of the total for the state.

### \$6,000,000 POWER PLANT EXPANSION

Houston Company to Increase Capacity to 200,000 Horsepower

Construction is under way on an extension to the Deepwater plant of the Houston (Tex.) Lighting and Power Company to cost \$6,000,000. The extension is being designed and constructed by the Phoenix Utility Company, New York, and all major equipment has been ordered. Improvements will require from 18 to 20 months to complete and will give the company a capacity at its Ship Channel plant of 150,000 kilowatts. With its Gable street power station, the company will have a total capacity of 242,000 horsepower.

### \$77,000,000 Kansas City Expansion Program

Kansas City, Mo.—Figures tabulated by the Chamber of Commerce, Conrad H. Mann, president, indicate that more than \$77,000,000 will be expended in Kansas City in 1930 for building and development projects. A preliminary report submitted by Howard C. Smiley, industrial engineer for the chamber, divides the expenditures as follows: Miscellaneous industrial, commercial and residential construction under way, \$7,210,000; similar construction to be started in 1930, \$25,900,000; public works under way, \$879,000; public works to be started in 1930,

\$23,125,000; utilities under way, \$1,800,000; utilities to be started in 1930, \$16,500,000, and railroad expenditures, \$8,000,000.

### \$2,000,000 Expenditure by Kentucky Utilities

Louisville, Ky.—Improvements planned by the Kentucky Utilities Company during 1930 will involve an expenditure of approximately \$2,000,000, according to L. B. Herrington, president. The program is designed to take care of the company's normal growth, and any new development during the year will entail the expenditure of additional funds. The company has been authorized to increase its capital stock from \$30,000,000 to \$35,000,000.

### \$22,000,000 TELEPHONE EXPENDITURE

1930 Budget of C. & P. Companies Part of \$100,000,000 Five-Year Program

Planning a total expenditure of more than \$22,000,000 in 1930 for new telephone construction in Maryland, District of Columbia, Virginia and West Virginia, the cost of this expansion program by the Chesapeake and Potomac Telephone companies will exceed expenditures for the current year in the same territory by approximately \$6,000,000, according to Lloyd B. Wilson, president, Washington, D. C. Of the total, it is estimated that \$8,000,000 will be expended in Maryland and during the coming year; \$3,500,000 in the District of Columbia; \$6,200,000 in Virginia, and \$4,450,000 in West Virginia. Facilities to be provided will include buildings, central office apparatus, local and inter-city telephone lines and other equipment.

These expenditures are a part of a 5-year program of expansion, under which the companies plan to expend \$100,000,000, including \$12,000,000 for land and buildings, \$22,500,000 for central office equipment and \$10,500,000 for inter-city toll lines and cables, much of the outlay in the last item involving the installation of the toll line system in cables to safeguard inter-city service.

### Building Lime Rock Plant

Newberry, Fla.—The Ocala Lime Rock Corp., Ocala, is completing a plant about five miles east of here on the Atlantic Coast Line. Equipment for the new plant, which will have a capacity of approximately 2000 tons of Florida lime rock per 10-hour day, is being brought from a dismantled plant near Kendrick and includes two 7½-yard Erie steam shovels, a 24 by 60 roll crusher, and two 60-horsepower horizontal type Bessemer oil engines.

## Baltimore Opens Its New 34-Story Skyscraper

The Baltimore Trust Building, a 34-story structure, was completed and formally opened last week. Its gold decorated copper roof rises from the site at Redwood, Light and Baltimore streets to a height of 500 feet above the street level. Recessional type of architecture dominates its design. In harmony with this setback plan, the stone base of the building is surmounted by a heavy corbelled cornice near the fifth floor, above

from the banking quarters. Side walls of the entrance hall are treated in ashlar or Doria stone, a species of limestone coming from Central Italy, relieved by bronze grilles, colored marble architraves and at the top by a frieze of carved medallions.

Beyond the large iron day-gate is the main banking room, 80 by 200 feet, with a ceiling height of 50 feet. The lower floor, devoted to public space and to tellers' and other cages, is treated as a

base in the architectural design, multi-colored columns beginning at the second floor level. These columns are of rare marbles, such as Pyrenees, Levanto, Rouge Reja, Verde, Antique, and Marion. A group of gilded and colored beam brackets over a single neck of Tennessee marble takes the place of the conventional capital. The ceiling is polychrome in character.

Various colored marbles weave in and out and circle around the features of the floor, which was designed by Hildreth Meiere, Baltimore artist. From three angles the three elements—Land, Water and Air—are depicted as part of this intricate design. At the center are four figures representing Vision, Courage, Industry and Cooperation.

The wrought iron screens framing the tellers' windows are the work of Samuel Yellin, Philadelphia ironworker, who also produced the day-gate. This work was all forged by hand and welded to-



Directors' Room in the New Bank Building

View of Main Banking Room Which Is 200 Feet Long and 80 Feet Wide, With a Ceiling Height of 50 Feet

which a plain brick shaft, with vertical lines accentuated by piers, extends to the lower cresting—the stone-carved, ornamented twentieth story. Here the building is reduced to a tower capped by arches and winged buttresses, and topped by a steep groined roof.

Each of the three entrance architraves is richly curved with a series of symbolic figures representing some of the crafts which have contributed to Baltimore's progress. The sculpturing of the exterior doorways and shop fronts is executed for the most part in cast bronze bas-relief, while many examples of bold architectural sculpture are executed in stone in the upper portions of the building.

Centered in the Light Street facade is the principal entrance. Through this arched portal, 50 feet high and 20 feet wide, access is gained to the high vaulted entrance hall, from which elevator lobbies lead to right and left and at the end of which is one of the building's features, an enormous day-gate and ornamental iron screen separating the lobby





gether on the anvilles in that craftsman's shop.

Later there will be placed on the banking room walls above the mezzanine floor, four mural paintings, depicting the history of Baltimore and Maryland, and executed by R. McGill Mackall, Baltimore artist.

Three floors above the main floor are also used by the bank, but as the main banking room extends through the first two of these floors, only the portion to the east of the elevators is available. The fourth floor is devoted to quarters for the bank's personnel, lockers, storage and filing spaces, and the board room. Walls of the board room are of rough-cast stucco with stone door trim and window tracery, the floor being of deep-toned quarry tile and the ceiling of decorated polychrome. Grouped in colister form are the windows, leaded glass of which was executed by G. Owen Bonawit. In the crescents of these windows the leads have been used to form silhouettes illustrating the history of transportation.

In the basement are the vaults containing the safe deposit department, coupon rooms and security courts. The safe deposit department provides ample vaults for use of the bank, areas available for rented safe deposit boxes and an entire floor below this level for storage of patrons' silverware and other household valuables. Vaults are of concrete, lined with tool-proof and torch-proof steel and iron. Entrance to the safe deposit section is through a door weighing 64 tons and having four distinct sets of clock mechanisms to control its operation. Elaborate electrical protection has also been provided, with outside connections to supplement the bank's guards. In event of holdup a day raid system will send an alarm to police headquarters.

Three light elevators will carry ledger sheets from the first to the bookkeeping department on the mezzanine floor. Pneumatic tubes will also connect the main floor with the departments above. Silica gel equipment conditions air in the bank.

Offices occupy the 230,000 square feet of floor space above the portion of the building used by the Baltimore Trust Co. Floors of these offices are of concrete, floors of the corridors outside being terrazzo. Marble wainscoting extends half way up in the corridors and around the elevators it extends well up to the ceiling. Oak doors and metal trim are used throughout. One unusual feature of the facilities is an underfloor duct system, whereby it is possible to tap both telephone and electric wires without tearing up the concrete flooring. Comfort rooms for both men and women are located on every floor.

This Latest and Most Impressive Addition to Baltimore's Skyline Towers 500 Feet Above the Street

Baltimore Trust Building

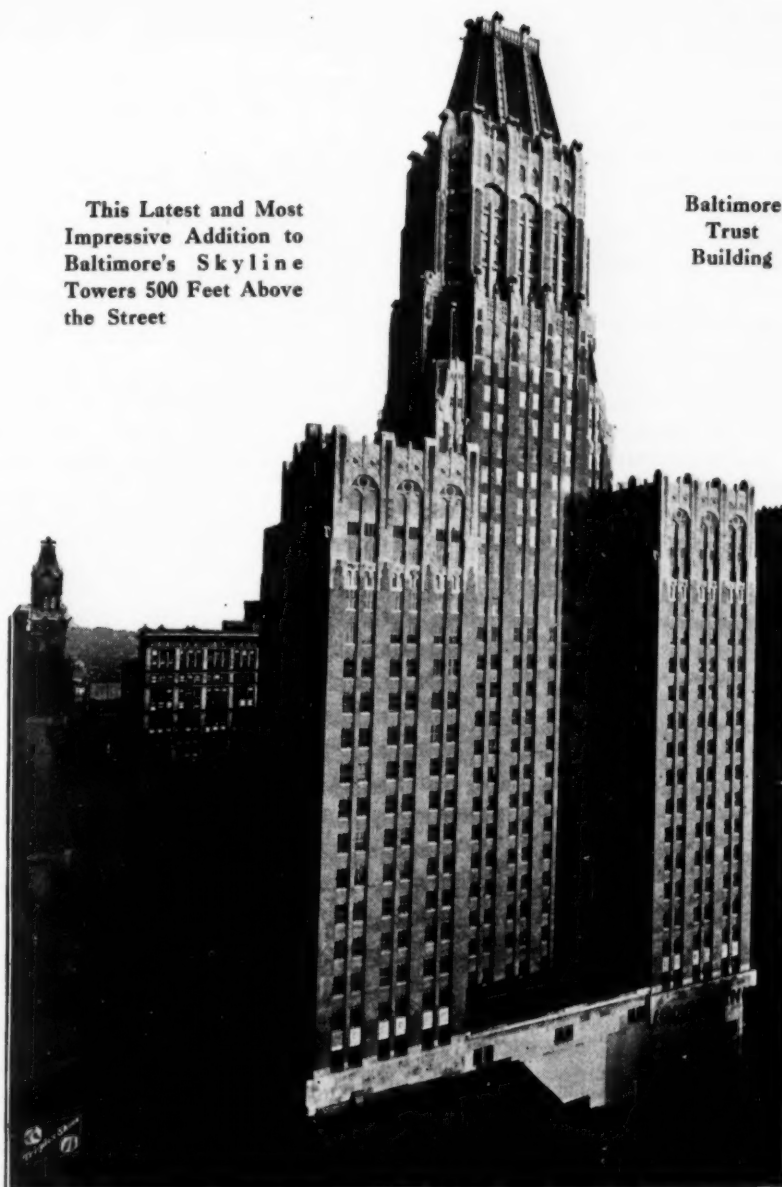


Photo by Holmes L. Mettee, Baltimore

To care for fire or other emergency requiring immediate emptying of the entire building, there is a fire alarm system which when set off rings large gongs on each floor. Frigidaire fountains insure cool drinking water. Four Gould household pumps force the water to a storage tank on the 18th floor and to the water tower. Two pumps of the same make are kept in reserve for emergency fire use. On each floor a fire hose and fire extinguisher are provided. A Whitlock domestic water heater provides hot water for the entire building. Economizers to cool the condensation from the heating system and a converter for humidity control are also of that manufacture. A master clock controls electrically 39 double-face clocks and six single-face clocks distributed throughout the corridors and banking quarters.

Steam for heating and for other purposes will be furnished by the Consolidated Gas, Electric Light & Power Co. from its network of high and low

pressure lines, known as the district heating system, thus making available for renting and other uses the space otherwise occupied by a heating plant necessary for such a structure. Steam is supplied at ten-pounds pressure through an 8-inch pipe and at 100 pounds pressure through a 6-inch main. Low pressure steam is furnished for Sandom radiators, for the air filtering equipment and for the hot water heater; high pressure steam is supplied for cooking and similar uses. It is estimated that 25,000,000 pounds of steam for heating and ventilating will be consumed yearly, in addition to that used for other purposes.

Ten Otis elevators serving the structure travel at a speed of 800 feet per minute. The elevator cars stop automatically at floors for which operators press control buttons, and as floors are approached the numbers of each are flashed on a small screen visible both to the operator and to the passengers. Three

elevators in the bank's portion of the structure, a service elevator and a tower elevator were also installed by the Otis Company.

Baltimore architectural firms of Taylor & Fisher and Smith & May collaborated in designing the building. J. Henry Miller, Inc., was general contractor. Mechanical engineer was C. L. Reeder and structural engineer, H. F. Doeleman.

The great diversity of products entering into erection of a structure of this size, and the manifold demands for material, equipment, machinery, supplies, fixtures and apparatus of one or another kind, produced, manufactured and installed by firms from all parts of the country, is clearly shown in the fact that more than 150 separate firms were engaged in construction work or supplied materials or equipment for the building. These firms include:

Directory board, Akins Products Co.; fans, American Blower Co.; brass pipe, American Brass Company; watch and fire equipment, American District Telegraph Co.; radiation, American Radiator Company; hardware, Anderson & Ireland; sand and gravel, Arundel Corporation; cinders, Arundel Trucking Co.; sprinkler system, Automatic Sprinkler Co. of America; brick, Baltimore Brick Co.; hauling limestone, Baltimore Transfer Co.; vault protection, Bankers' Elec. Protective Assoc.; air washers, Bayley Blower Company; electrical supplies, Jos. A. Becker; machinists' supplies, L. A. Benson Co., Inc.; sheet piling, Bethlehem Steel Co.; machinery, etc., Black & Decker Mfg. Co.; lighting fixtures, Blumenthal-Kahn Elec. Co.; leaded glass, G. Owen Bonawit, Inc.; repairing engines, etc., L. Boyd & Company; recording gauges, thermometers, Brown Instrument Company; masonry, David C. Butcher; wrought iron pipe, A. M. Byers Company; lighting fixtures, Ed. F. Caldwell & Co., Inc.; window frames and sash, Campbell Metal Window Corp.; lumber, Canton Lumber Co.; machinery and supplies, Carey Machinery & Supply Co.; supplies, The Philip Carey Co.; cement and lime, Carson Stanwood Co.; cast iron soil pipe fittings, Central Metal & Supply; copper, Chase Brass & Copper Co.; house and fire pumps, Chatard & Norris Co.; telephone equipment, Chesapeake & Potomac Telephone Co.; nipples, Chicago Nipple Mfg. Co.; underground duct, City of Baltimore; smoke stack, house and water tanks, Contesville Boiler Works; hardware, Wm. H. Cole & Sons; steam gauges, Consolidated Ashcroft Hancock Company; outside steam service, Cons. Gas Elec. L. & P. Co.; rubber goods, Continental Rubber Co.; sheet metal and roofing, Wm. E. Cotton Co.; valves and fittings, Crane Company; plumbing & heating, H. E. Crook Co., Inc.; gasoline, oil, etc., Crown Oil & Wax Co.; coal, Cumberland Coal Co.; mail chute, Cutler Mail Chute Co.; hollow metal doors, Dahlstrom Metallic Door Co.; mosaic banking rooms, De Paoli Co., Inc.; steel, mesh, etc., Dietrich Bros.; lighting fixtures, Jos. Dreisch; vacuum system, C. A. Dunham Company; sump pumps, Morton McL. Dukehart Co.; swifter lifter, Economy Engineering Co.; fire hose equipment, Elkhart Brass Mfg. Co.; steel erection, Jas. H. Elkins Constr. Co.; bronze work, Ellison Bronze Co., Inc.; reflectors, The L. Erikson Electric Co.; brick, Excelsior Brick Co.; installation Silico Gel equipment, Wm. A. Fingles, Inc.; electrical work, Howard P. Foley Co., Inc.; hardware, W. Irving Forge, Inc.; steam expansion joints, The Fulton Company; air compressor, Gardner Governor Co.; electric equipment, General Electric Co.; electric equipment, General Electric Supply Co.; sign work, General Outdoor Adv. Co.; hauling, George Transfer Co.; cement and lime, Robert S. Green, Inc.; reducing valves, Grinnell Company; stone, Gwynns Falls Stone Corp.; plastering, John H. Hampshire,

Inc.; millwork, Heise & Bruns Mill & Lumber Co.; ornamental iron, Herzog Iron Works; sand, R. D. Hesse; access doors, Higgins Manufacturing Co.; marble, Higgartner Marble Co.; fire alarm and bell systems, Holtzer-Cabot Electric Co.; dampproofing, A. C. Horn Sales Corp.; hoist, Hubbard & Eagleston; building materials, Hubbard-Kothe, Inc.; building materials, Hudson Bldg. Supply Co.; field inspection, Robert W. Hunt Co.; kitchen equipment, Hutchinson Bros.; limestone, Indiana Limestone Co.; casement windows and doors, International Casement Co.; lumber, James Lumber Company; skylights, A. H. Jeter & Co., Inc.; acoustical treatment, Johns-Manville Co.; automatic temperature control, Johnson Service Company; asbestos covering—plumbing, Keasbey & Mattison Co.; elevator door pads, David E. Kennedy Co.; millwork, Kertscher & Company; sawdust and shavings, J. C. Kessler Co.; counters, Henry Klein & Co., Inc.; cabinet work, John C. Knipp & Son; insulation, Korfund Company; millwork, Lafayette Mill & Lumber Co.; engines, Lambert Hoisting Engine Co.; pneumatic tubes, Lamson Company; lathing, F. G. Leach; photographs, Harry B. Leopold; oxygen, Linde Air Products Co.; copper, Lyon, Conklin Co.; special painting, Mack, Jenney & Tyler; Atlas luminite cement, Maryland Lime & Cement Co.; wire mesh, Maryland Steel Prod. Co.; lumber, Mattingly Lumber Co.; sewer connections, John Matriciani; nalecode, Paul Mende, Inc.; contractors' supplies, H. H. Meyer Co.; reducing valves, McAleer Mfg. Company; structural and reinforcing steel, McClintic-Marshall Co.; scaffold, McGhan Patent Scaffolding Co.; oil storage tanks, McNamara Brothers; sewage ejectors, Nash Engineering Co.; tile and terrazzo, National Mosaic Co.; ornamental plastering, T. Milton Oler; limestone, James O'Meara; elevators, Otis Elevator Co.; scaffolding, The Patent Scaffolding Co.; cement and lime, Pen-Mar Company; cement testing, Penniman & Browne; copper tile, Philadelphia Metal Stamping Co.; glass and glazing, Pittsburgh Plate Glass Co.; excavation and wrecking, Potts & Callahan; oxygen, Prest-O-Lite Co.; flag poles, Redman-Vane Shipbuilding Co.; air filters, Reed Air Filter Company; models, Ricci & Zari; insurance, Riggs, Rossmann & Hunter, Inc.; rope, Rinek-Cordage Co.; plumbing fixtures, James Robertson Mfg. Co.; electrical supplies, Shepherd-Fluharty Elec. Co.; air conditioning equipment, Silica Gel Company; structural steel paint, L. Sonneborn Sons, Inc.; coating for water tanks, States Engineering Co.; electric time system, Standard Electric Time Co.; fans, B. F. Sturtevant Company; fire doors, Syracuse Fire Door Corp.; millwork, Tinley Brothers Co.; corner beads, Truscon Steel Company; ornamental iron, Tullin Iron Works; registers and grilles, Tuttle & Bailey Mfg. Co.; plastering materials, U. S. Gypsum Company; rubber goods, United States Rubber Co.; painting, J. G. Valiant Co.; flags, Veterans Flag Committee; underfloor duct system, Walker Bros.; placing reinforcing steel, Carl H. Walker; roofing, Warren Ehret Co.; expansion joints, Warren Webster Company; hauling, C. E. Watson Transfer Co.; waterproofing, Western Waterproofing Co.; rope, F. W. Winne Sons; cinders, Martin White; hot water generators, Whitlock Coil Pipe Co.; steel cable, Wm. H. Whiting Co.; lumber, P. M. Womble; wrought iron work, Samuel Yellin; night depository, York Safe & Lock Co.; hauling, Zick Motor Transfer Co.

### Contract Let for Tobacco Factory

Richmond, Va.—The American Tobacco Co., New York, has awarded a contract at about \$700,000 to the Wise Granite and Construction Co., this city, for constructing a factory building at Cary and 26th streets. The new structure, which, it is reported, will increase the present capacity of the Richmond operations from 42,000,000 to 100,000,000 cigarettes daily, fronts 268 feet on Cary street with a depth of 210 feet. It will be six stories high at the front and three stories at the rear. An expenditure of \$2,500,000 will be made for new equipment for the plant.

### C. & O. PLANS TO ACQUIRE TWO ROADS

**Increases Capital Stock From \$185,000,000 to \$300,000,000**

Richmond, Va.—Stockholders of the Chesapeake & Ohio Railway Company have authorized the acquisition of the properties, assets, rights, privileges and franchises of the Chesapeake and Hocking Railway Company and of the Hocking Valley Railway Company. They also authorized an increase in the capital stock of the company from \$185,000,000 to \$300,000,000 and an amendment to the company's charter providing for the change of each share of the common stock of \$100 par value into four shares of the par value of \$25 each. The action of the stockholders, where required, is subject to the approval of the Interstate Commerce Commission.

### Charges New York Magazine Tried to Stop Travel to Florida

A. A. Coult of Fort Myers, secretary of the Florida Commercial Secretaries Association, takes the magazine "The Business Week" to task for attempting to turn travel from Florida to another state, according to a special dispatch in a recent issue of the Jacksonville Times Union.

Mr. Coult on behalf of more than 100 Chambers of Commerce in Florida challenges the authority of "The Business Week" magazine to recommend the traveling public not to motor to Florida and he says:

"Why the editorial effort to divert automobile travel from Florida to a state 3,000 miles from New York city, competing for winter tourist business?"

"The cost for gasoline alone to travel 4,000 additional miles for round trip to that state, over round trip mileage from New York city to Florida, would pay many times over, the total cost for travel to Florida."

"Automobile owners do not object to paying a little tax on gasoline in states where actual cost for operation of automobile is reduced through greater number of miles per gallon of gasoline, obtainable on account of paved roads."

"Motorists have a choice of several paved highways through the Eastern and Southern states to Florida and this state has many thousand miles of fine paved highways connecting all the principal cities."

### \$474,000 Hospital Contract

Excelsior Springs, Mo.—General contract has been awarded to Murch Brothers Construction Co., St. Louis, at \$474,000, by the United States Veterans Bureau, Washington, D. C., for buildings and appurtenances for the U. S. Veterans Hospital here. The entire cost of the project is estimated at \$900,000.



# Annual Power Show Closes a Successful Week in New York

[Special Correspondence Manufacturers Record.]

New York, December 7.

The designation, Power Show, conveys about as inadequate an idea of the great collection of exhibits brought together under that head as the name, MANUFACTURERS RECORD, gives of its broad scope. While a large portion of the exhibits are concerned primarily with the generation, transmission, distribution or measurement of power, many of them are there merely because of the excellent opportunity for demonstrating their merits to a great many prospective buyers. In this class, and an exhibit of special interest, was the domestic air conditioning unit of the Carrier Engineering Corp., Newark, N. J. This company showed its "Weathermaker," for heating, washing and humidifying the air of homes. The equipment is built in the form of a compact unit, is designed to draw in air, remove all dust, heat it, raise its relative humidity to a point both comfortable and healthful, and blow it through air ducts to all rooms in the house. Temperature is thermostatically controlled, gas is used as fuel, and it is claimed that 90 per cent of the heat value is captured and utilized. The unit is made in three sizes and is designed for homes ranging in value from \$20,000 or \$25,000 up.

There were many other exhibits of equipment for heating, ventilating or otherwise conditioning air, some for domestic, hotel and office as well as industrial use; some merely for industrial service. The Grinnell Co., Inc., Providence, R. I., showed its comparatively new Thermolier, an individual heating unit consisting of a small radiator of copper tubing supplemented by fins on the tubes for more rapid radiation, all enclosed in a box open front and back. In the back is a motor driven fan for forcing a draft through the radiator and in front a set of movable vanes designed to direct the draft in the desired direction. It is claimed that this unit is so efficient as to replace cast iron radiators of ten times their weight, thereby effecting a saving in installation cost and in space occupied.

The American Blower Corp., Detroit, likewise had on exhibit a combination of radiator and forced draft. In this system the units are larger than in the thermolier, and special provision is made for recirculating the air of the plant or for drawing into the unit a draft of fresh outside air if desired.

An advance in its ventilating equipment was shown by the Swartwout Co.,

Cleveland. It consisted of a small compressed air device by which the shutters of all of the ventilators on a building could be opened or closed by the turning of a single valve located in the boiler room or other convenient point. The distinctive feature of Swartwout ventilators is the location of the shutters at the outer opening instead of at the inner, or bottom opening.

Fundamentally, there are only a few things to be done with power. It must be generated; it must be transmitted; it must be applied. But power, or energy, is an elusive thing, its sources are numerous and the devices and methods for preventing its loss, for measuring and controlling it are past counting.

Complete power units were shown by the Sterling Engine Co., Buffalo, N. Y., the chief feature of the exhibit being the large Viking "2" eight cylinder gasoline motor. It is said to be the largest and most powerful 8 cylinder gasoline engine used for stationary duty.

The Westinghouse Electric and Manufacturing Co., East Pittsburgh, Pa., showed its new AMD mechanical drive turbine for driving circulating pumps, centrifugal boiler feed pumps, blowers and other rotary apparatus. In this turbine the glands are water sealed, bronze nozzles and brass reversing chambers are used and the turbine casting may be of iron or of steel according to service expected.

In the field of steam power, grate bars, stokers, coal pulverizing equipment, refractories and boilers were represented in great variety. The Thomas elliptical grate bar with the rocker motion, was exhibited by the Thomas Grate Bar Co. of Birmingham. The Riley Stoker Co., Worcester, Mass., exhibited its well-known Jones Side Dump grate and stoker, in which there was no recent change, coupled with a stoker-driving device that is new. The feature of the new device is constant speed of motor, coupled with a variation in speed of stoking of from 60 to 6000 pounds of coal per hour and a draft synchronized with coal feed. It showed also a new water wall, the distinctive feature of which is forced flow of water at high velocity in one direction only, thus enabling the tubing to be laid in any desired direction without danger of burning.

The Hydro-Jet for removal of ashes under boilers with a minimum of labor and expense, was exhibited by Allen

Sherman Hoff Co., Philadelphia. In this device a sliding trap in the ash pit dumps the ashes into a trough from which they are washed by a stream of water, the ash laden current being pumped to a separating device by a pump of new and radical design. This feature of the new pump is expected to give it exceptionally long life in the handling of abrasive materials. This exhibit included also an offset soot valve for conveying soot from the stack to the Hydro-Jet ash handling system, thereby permitting removal of both in one operation.

Exhibits of refractories formed an important part of the show. Various, complicated and severe are the conditions to which refractories are subjected, and the variety of exhibits reflected this fact. Harbison-Walker Refractories Co., Pittsburgh, was on hand with its complete line, including brick of 50, 60, 70 and 80 per cent alumina content especially adapted to carrying heavy loads at high temperatures and to resisting action of a great variety of slags; a magnesite, or basic brick, used in open hearth furnaces and in other metallurgical furnaces where strong basic slags are encountered; a chrome brick, made from chromite, called the most nearly basic refractory known, used in open hearth practice and as a neutral layer chemically insulating magnesite from fire clay or silica brick; and finally two high temperature cements—Firebond made on a silica base material, and Thermolith, a chrome material and therefore neutral.

A plastic, refractory cement applied to the inner walls of furnaces in a fine spray by compressed air and a nozzle has been developed and was shown by Botfield Refractories, Inc., Philadelphia. Adachrome Plastic Super-Cement, as the material is called, is made on a chrome base and is therefore chemically neutral. A high degree of resistance to many slags is claimed for it, besides a very high resistance to heat.

In the foregoing refractories, heat conductivity is not an important factor. For some purposes, however, low conductivity is essential, while for others a high conductivity is equally desirable. Representing heat insulators for use between the refractory linings and the outer walls of furnaces were the silica, or diatomaceous earth, brick of the Johns-Manville Corporation, New York, and of the Armstrong Cork and Insulation Co., Lancaster, Pa.

In this connection, Johns-Manville showed a great variety of heat-insulat-

ing, heat-resistant and corrosion-resistant materials. Transite board, an asbestos product, is well known as a wall board with high resistance to heat, but Transite pipe is a new development. While similar to flat transite in composition the greater pressure used in its manufacture gives it superior qualities for some purposes. It is less permeable to water, and is recommended for pipe lines, either above or under ground, for corrosive chemicals. Still another recent addition of Johns-Manville shown in the booth was Cellite, a powdered material recommended for mixing with Portland cement to secure economy in use of cement, lower permeability to water, and in cold weather a lower freezing temperature of the mix during setting.

For high heat conductivity and resistance to extreme temperatures, the Carborundum Co., through its Refractories Division at Perth Amboy, N. J., was showing carborundum brick for use in muffles and saggers for glass annealing, enameling, porcelain glazing, malleable iron annealing and all uses where the object to be heated must be protected from direct contact with the gases of combustion. These materials, it is claimed, will stand temperatures of 3400 to 4000 degrees according to presence or absence of a bonding material. They are recommended also for lining furnace walls at and just above the level of the fire bed.

Boilers and boiler tubing on exhibition gave evidence of the trend toward higher pressures. The National Tube Co. showed its full line of National Shelby seamless steel boiler tubing and National welded steel pipe. Linde Air Products showed an oxwelded steam header for steam power plants, the ends reduced from a diameter of about 14 inches to 2 inches by "Orange Peel Bull Plug" welds, and all leads and couplings oxwelded on.

The feature of the Babcock & Wilcox Co., New York, was a section of an electrically welded high pressure steam drum, a recent development for this company. The advantage claimed for this type of drum is elimination of the weakness due to embrittlement in cold-bent, riveted drums. This company has been keeping pace with the growing demand for high-pressure equipment, as shown by the water column and header designed for pressures of 1400 pounds. It showed also its Enduro, a chrome and nickel steel seamless tubing for boilers and for uses requiring a high resistance to chemicals.

M. W. Kellogg Co. of New York, likewise showed a forge and hammer lap-welded boiler drum for 400 pounds pressure and a header made by the same process for 600 pounds standard, and equipped for Sargol joints.

In no other equipment was the tend-

ency to high pressures so strikingly indicated as in the exhibits of valves. The Henry Vogt Machine Co., Louisville, Ky., had on exhibit a drop forged steel valve for 1350-pound pressures, with lighter valves for pressures of 600 and 900 pounds. The feature of these valves is that they are forged all in one piece, when formerly they were built up by welding. Wm. Powell Co., Cincinnati, showed a full line of cast steel valves for pressures ranging from 150 to 1350 pounds. The Crane Co., Chicago, also showed cast steel valves for high pressures. Emphasis was laid by this company on the adaptability of its valves to high temperature work as well as high pressure, much of its business being in connection with oil refineries.

Still another 1350-pound valve was shown by the Lunkenheimer Co., Cincinnati, a 6-inch globe valve, W. S. P., gear operated and equipped with a small exterior by-pass. Other valves by this company for pressures ranging up to 900 pounds, are of iron, steel and monel metal, according to the service required. They include globe, gate, check and blow-off valves.

Gas for power was featured by the American Gas Association, Inc., New York. Also, gas as a fuel where power was not the object, as for steam-jacketed candy kettles, in melting the type metal in printing plants, or in other installations where fuel storage is undesirable, a steady or readily controlled heat being necessary.

Electricity for power was represented by several types of electric motors. The Allis-Chalmers Manufacturing Company, Milwaukee, showed something new in the shape of a squirrel cage inductance motor with windings permanently sealed against dust, dirt and moisture. Emphasis was laid on simplicity of design and construction, the solid cast iron end housings forming the end closures as well as the bearing supports, thus giving ease of accessibility. The motor on exhibit had glass windows let into one of these end closures and was operating in an enclosed atmosphere of dust, the windows revealing the windings clean, thus showing suitability for locations in foundries, cement mills or other places of extreme dirt and dust. In size the motor is only slightly larger than the standard open type motor of equivalent rating.

Another new motor was shown by the Howell Electric Motors Co., New York. This was a single-phase motor without brushes, commutator centrifugal switch or other wearing parts besides the bearings. It is featured as having a starting torque of 250 per cent and is built in sizes ranging from one-eighth to 25 horsepower.

A polyphase motor was shown by the Century Electric Co., St. Louis, Mo., a brush and commutator design, for which

the manufacturer claims a static torque of "not less than 225 per cent of full-load torque," with a low starting current.

A Diesel-electric switching locomotive in which the starting power is nearly four times as great as the power of its Diesel engine is a new development exhibited by the Electric Storage Battery Company, Philadelphia. This high starting power is attained by the use of an Exide Iron-clad storage battery weighing 17½ tons. Most of the power for starting and for heavy work is taken from the battery, while the charging is done during idling or while running light. The connections automatically take care of the distribution of load between battery and engine, and the combination produces about 1100 H. P. for peak loads with a 300 H. P. Diesel engine. One such engine is now in continuous 24-hour service in the yards of the New York Central, and 41 are on order.

Transmission of power through steam lines is covered by the pipe and valve exhibits already described; transmission by means of belts and chains, and through bearings, was featured by a number of exhibitors.

The Morse Chain Co., Ithaca, N. Y., made use of a remarkable development of the Neon light to exhibit its anti-friction rocker joint. By coordinating the speed of the flashes of the light with the linear speed of the chain, an effect was secured of a chain moving with a snail's pace, thus permitting the spectator to observe the action of the joints at high speed as easily as if it were running at a speed of a foot in two or three minutes.

The Diamond Chain and Manufacturing Co., Indianapolis, drew considerable interest by an exhibit of a roller chain traveling at a linear speed of 2000 feet per minute, contrasted with a former maximum for roller chains of 600 or 800 feet per minute. The increase is made possible by lighter parts and special metals, and by improved design of the sprocket teeth.

Tentacular belting, a belt built up of a tension part on the outside, with strips of soft, "tentacular" leather next to the pulley, was shown by Alexander Bros., Philadelphia. The advantage claimed is great tractive power combined with a maximum of leather belt strength and endurance.

Planetary worm and herringbone speed reducers, Van Dorn two-speed axles and a complete line of forged gears was exhibited by Gears & Forgings, Inc., Cleveland.

The Dodge Manufacturing Corporation, Mishawaka, Ind., exhibited a Dodge-Timken ball and rocket pillow block, 7-inch bearing, for use in heavy rubber mill drives, paper mill jordans, and other heavy paper mill installations where heavy thrusts and radial loads



are encountered. The bearing is made by Timken; the housing by Dodge, and the latter is designed to protect the power from dirt and dust while providing access for installation or adjustment. The large size of the bearing is important as indicating the trend towards larger and heavier bearings. This point is even more forcibly illustrated by bearings shown in the Timken booth. Here were one of the bearings being used on railway cars and a 12-inch bearing with 4 sets of rollers for steel rolling mills.

The variety of gauges seemed endless. The General Electric Co., Schenectady, N. Y., showed for the first time a micrometer for measuring bores of cylinders, developed for rapidly and accurately gauging the bores used in their refrigerators. It is an amplifying electromagnetic instrument that indicates imperfections by the movement of a pointer on a graduated scale, and is independent of the skill of the operator. It is not yet in commercial production, but a large demand is anticipated from machinery manufacturers. The Brown Instrument Company, Philadelphia, showed for the first time a recording pressure gauge which indicates, records and controls pressures. It uses the self-balancing induction bridge principle to transmit readings to the recording dial, which may be situated in an office a few miles distant from the plant.

By no means all of the equipment fell into groups easily classified in relation to power. Thus, the Fuller Lehigh Co., Fullerton, Pa., was showing for the first time a Fuller Lehigh Type B table mill which it is using for crushing coal; but it is equally applicable to other materials; and to classify it merely as a coal crusher would be to set too narrow a limit on its field. The difference between this and its predecessor in the Fuller-Lehigh line is that the grinding table revolves under the balls, the latter being free to roll, while in the old type the table was stationary and the balls were driven around by arms set in a revolving shaft. This mill is not yet in commercial production, but is considered past the experimental stage.

Another crusher was shown by the Bethlehem Steel Co., Bethlehem, Pa. This also has a vertical axis with revolving crushing table, but differs from the Fuller-Lehigh unit in that the grinding elements are wheels set on vertically hinged shafts so that they can rise and fall with unevenness in the material being ground. In both machines the pulverized material is drawn off by suction.

Under this group might be included also the power drag scraper equipment shown by Sauerman Bros., Inc., Chicago, since it is used in coal storage yards; but is used also in yards for storing

crushed stone, asphalt and other materials suitable for piling in the open. This exhibit included an elevated bridle running on a line between posts for return of the drag, and a "tall tower hitch," or drag return hitch attached to a heavily-weighted flat car which encircles the storage yard on a railway track. Either system enables return of the empty drag to any part of the yard for a fresh scoop-full.

While we are in the neighborhood of coal piles it is a good time to mention the sampling device shown by the Sturtevant Mill Company, Dorchester, Mass., in connection with its sample crusher, the former being designed to collect representative samples at regular intervals from a stream of coal on a conveyor, from a hopper or chute, and dump them into the small pulverizer which prepares them for the testing laboratory. Sturtevant was showing also an air separator that has nothing to do with coal piles, but is used to separate the finest from the less fine particles in the crude and burned ends of cement manufacture, thereby speeding up operation in the former and increasing uniformity in the latter; to separate the most finely pulverized of other materials, and at least in a limited way, to separate the pitch from the fibre of bagasse in experiments of wall board manufacture.

The recently developed method of remote control and of remote indication which appeared in the show last year, has cropped out in many more places this year. The remote indicator of the Brown Instrument Co. has been mentioned; Veeder-Root, Inc., Hartford, Conn., is this year showing a remote control counter for factory use, so that an executive in his office can see what his machines are producing. Another addition to the Veeder-Root line is a stroke counter for typewriters, to measure the output of stenographers. The same idea appeared this year in too many places to mention.

Progress in electrical science was marked. Several new motors and the combination Diesel-storage battery locomotive was described, also a few electrical instruments. Another contributor to progress in the electrical field was the Cooper-Hewitt Electric Co., Hoboken, N. J. This company showed a low voltage, high current Neon lamp applicable to sign and flood lighting. It is in contrast with other Neon lights which require a voltage as high as 15,000. Another feature of this exhibit was a mercury-to-mercury connector, or switch, offered in competition with mercury-to-metal switches, the advantage claimed being longer life due to elimination of burned metal contacts.

Unclassifiable new additions to well-known lines that might well be men-

tioned included Allegheny metal, chromium 18 per cent; nickel, 8 per cent; and claimed to be "unquestionably the most corrosion-resistant ferrous alloy which has yet been offered in commercial quantities and at a moderate cost," shown by Joseph T. Ryerson & Son, Inc., Chicago; also the new floor paint of the Joseph Dixon Crucible Co., Jersey City, N. J. Continuous metal flooring and armoring was shown by Irving Iron Works Co., Long Island City, N. Y., and made possible by the new "Irving Streamline" splice. A new method of using Oakite cleaner in oil coolers, whereby the Oakite solution is circulated through the cooler without removal of the tubes, was shown by Oakite Products, Inc., New York. Shepard Niles Crane & Hoist Corporation, Montour Falls, N. Y., showed new and more compact designs in cranes and hoists.

### \$1,362,000 Expenditure by El Paso Next Year

El Paso, Tex.—It is estimated that \$1,362,000 will be expended in El Paso in 1930 for city improvements, according to City Alderman W. E. Robertson, finance commissioner. Contemplated projects include new school facilities to cost \$570,000; waterworks, \$300,000; drainage improvements, \$120,000; paving, \$23,000; sewerage, \$47,000; airport, \$15,000; fire department, \$150,000; remodeling city hall, \$20,000; street and alley improvements and traffic lights, \$45,000, and parks, \$55,000.

### Meridian Wants Canning Plant

Meridian, Miss.—With an adequate supply of beans and sweet potatoes assured, and with the possibility of growing tomatoes of the proper size and color for canning, the Meridian Chamber of Commerce offers a free site, with state, city and county tax exemption for a period of 5 years, to encourage the establishment of a canning plant, pledging its support to the enterprise.

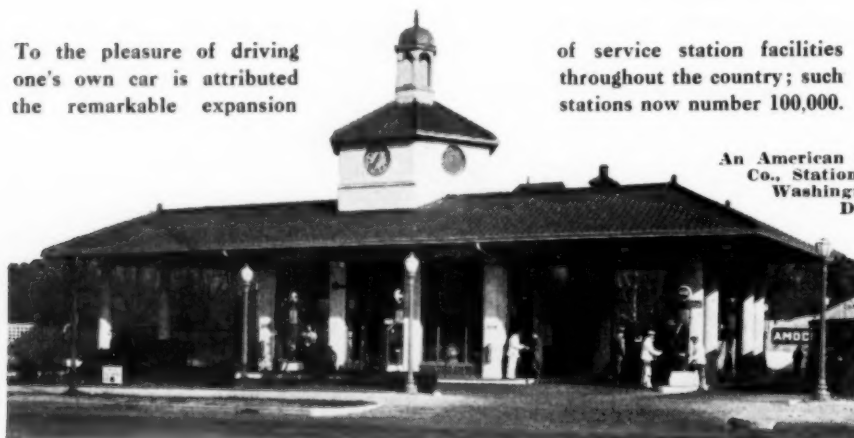
### Complete Ceramic Survey

Morristown, Tenn.—The local chamber of commerce has completed a survey of the ceramic possibilities of nearby territory, which discloses that a large percentage of the materials necessary for manufacturing clay ware, including ground feldspar, ground flint, kaolin, silica, brick shale, and coal, may be obtained within 100 miles of Morristown.

## Automotive Industry Stimulating Great Diversity of Activities

To the pleasure of driving one's own car is attributed the remarkable expansion

of service station facilities throughout the country; such stations now number 100,000.



An American Oil Co., Station in Washington, D. C.

THE automotive industry in itself is gigantic, but through allied and supplemental lines it brings to America annually numerous outstanding developments that greatly stimulate industry in general. Although motor transportation has increased rapidly in the past few years the use of motor cars will apparently continue to mount. When bus lines began operating a few years ago over comparatively short routes there were those who at once agreed the bus would take a big share of short-haul traffic, until then conceded to street railways, interurban lines and steam railroads; but these same well-qualified observers emphatically insisted that long distance transport of passengers would

By  
CARROLL E. WILLIAMS

for an indefinite period remain almost exclusively the railroads' business. More recently, however, the motorbus has entered with a rush into the long distance transportation field. Competition has become so keen that steam rail lines in practically every section, sensing the value and desirable features of motorbus transportation, have organized subsidiaries and are operating lines in competition with other common carriers on the highways and supplementing their existing passenger carrying facilities. Long distance transportation by truck is now handled by the rail lines, by competing truck transportation companies and pri-

vately owned lines operated by industries, associations, stores and others. Also, tourist traffic in privately-owned motor vehicles is steadily increasing and promises even greater strides in keeping with rising standards of living, higher wage scales and lower operating costs through more efficient motor vehicles and lower maintenance and operating costs brought about by building high-type pavements over extensive mileages.

A late development in connection with motor transport is the establishment of a chain of tourist service units—each comprising complete facilities for servicing motor vehicles and for food and lodging and the satisfying of personal wants of motor travelers—by the Pierce Petroleum Corporation of St. Louis, Mo.

It is a far cry from the day when gasoline was purchased in 5-gallon cans at the grocery store to the present day, when \$250,000 stations like this one in Baltimore cater to the needs of the motoring public—which means practically everybody.



Betholine Service Station, Baltimore, Md.



This highway terminal and hotel building program is an outgrowth of two important factors, the first being a broader idea of automobile travel requisites and the second the competitive conditions in the petroleum industry. A survey convinced the company that increase in the number of filling stations was far outstripping the increase in consumption of gasoline, that the cost of doing business was mounting, and that in the petroleum business generally the main product, gasoline, was being distributed at a loss, the industry relying principally on other activities for profit. Therefore, it was decided to co-relate the business of distributing gasoline with some other line to develop it into a profitable proposition. By studying the needs of the motor traveler to determine the business which could be built up to be of service, the company found that little had been done for the highway tourist. The result was a program involving initial expenditure of several million dollars for comfortable and convenient service units at strategic points along the chief arteries of travel east and west.

#### *Super Service Stations Under Way on Big Scale*

Another development toward better service for the motoring public is being undertaken by the Firestone Service Stores, Inc., organized by the Firestone Tire & Rubber Co., Akron, Ohio, in the recent completion in Miami, Fla., at a cost of \$500,000 of a "one-stop" service station elaborately equipped for providing motorists with everything necessary in a single stop, save only major mechanical repairs. It is typical of a group of such super-service stations being established throughout the country by the Firestone interests. An indication of how pretentious is the company's servicing program is the announcement that such stations, recently completed, now under way or proposed in Florida involve the expenditure of over \$2,000,000. Convenience and quick service are watchwords. Other major tire producing companies, through subsidiaries, are undertaking programs along the same general line. Also, privately owned service stations, handsomely appointed and with complete facilities for servicing motor vehicles are being established in cities and towns throughout the country.

The "master service station" idea is being expanded by the Firestone company in order that the many varied services required to insure economical operation and safety may be concentrated in one establishment—gasoline and oil supply; tire repair, retreading and replacement; lubrication; battery and electrical service; brake testing, adjusting and lining; wheel testing and aligning and so on. Briefly, such a station is

virtually a complete department store for everything a motorist desires for his car. Such stations also are becoming merchandise centers for other goods, and in the not too distant future general stores, the super-type drug store, delicatessen shops, pressing establishments and the like may be established as auxiliaries of the modern one-stop station.

De luxe service stations that might be described as automobile beauty parlors, with every facility for keeping cars clean, attractive and thoroughly and correctly lubricated are being erected throughout the country, and in the aggregate involve the expenditure of millions of dollars. An example of such chains of stations is the Lighthouse Service, operated in the vicinity of Pittsburgh, Pa., by Charles Daw. Starting with a small gasoline filling station several years ago a few miles east of Pittsburgh, there has been developed a group of stations where systematic methods of servicing have built up a profitable business. Lighthouse stations are operated 24 hours daily, so that cars may be left overnight to be completely serviced, washed and polished.

"Drive-in markets" have been established in several cities, and the movement is gaining headway. Some months ago plans were announced for erection in San Antonio, Texas, of a "community center" to cover two city blocks, involving construction of one and two-story buildings to provide for 81 stores, a market and grocery space, and with parking accommodations for 600 cars. A large market building will dominate the group. Similar projects are expected to be undertaken by the same company in other cities. A municipally owned "farmers' market" designed primarily to provide facilities for farmers using motor trucks to haul their products to the city was recently completed in Houston, at a cost of over \$1,000,000; it occupies an 8-acre tract and reinforced concrete sheds extend over the space used by the farmers' trucks for displaying products, with accommodations provided for 308 vehicles. Beneath the market floor are accommodations for 1200 customers' cars.

#### *Parking Garages Being Built in Southern Cities*

With many cities prohibiting parking in downtown areas and other cities restricting parking to very short periods, the erection of centrally located fireproof garages is imperative. In fact, the parking garage movement has only just begun. Downtown parking is necessary, but since the streets alone cannot carry the burden it is obvious that the modern corkscrew-like ramp garage and the semi-automatic garages will write a new chapter in the life of this convenience-seeking nation. Such structures have

been built or are now under construction in Baltimore, San Antonio, Austin, Memphis, Oklahoma City, Washington, D. C., Richmond, Birmingham, St. Louis and other cities throughout the South.

Another trend for which the automobile is responsible is the incorporation of garage facilities within modern office structures, using intermediate floors for storing cars of tenants and their clients. Sometimes separate garages are erected in the rear of office structures and connected thereto by covered walkways direct to elevators.

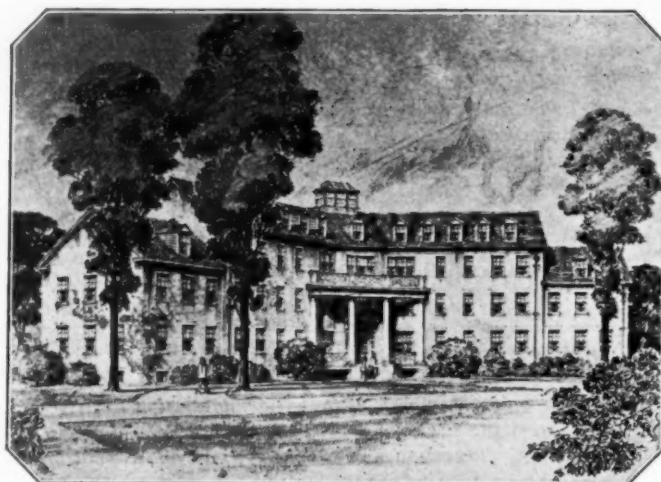
#### *Movement Spreads for Making Highways Scenic Not Signic*

With the fight vigorously on for the removal of objectionable billboards and signs from and adjacent to highway rights-of-way, attention has also been focused on unsightly filling stations, hot dog stands, unpleasant tourist camps, unattractive roadside stores and similar facilities. A number of nationwide contests have been conducted by various organizations in the effort to obtain the best possible plans and specifications for roadside stands, stores and filling stations and thereby stimulate interest in building serviceable and at the same time attractive establishments, and already the movement to provide such facilities is under way. Comfort station accommodations along highways are normally poor, carelessly maintained, and service is largely grudgingly forthcoming. Motorbus terminals generally are no less uninviting, but the larger operators, seeing that the public must be served and served well, are awakening to the situation and taking steps to provide for erection of central stations comparable in completeness to union stations of steam rail lines. It is interesting to note that such a union bus terminal and garage, complete with modern stores, offices and hotel accommodations, is now being erected at a cost of \$5,400,000 in Kansas City, Mo., by the Interurban Central Station Co. Good examples of modern bus terminals are to be found in some of the structures erected in Florida, which is now traversed throughout its length and breadth by buses operating on regular schedules. Here and there in other states also are examples of the modern motorbus terminal, but in the main the existing facilities are inadequate and fall far short of meeting the needs of the traveling public. That this need will be met is certain, particularly now that major rail lines are operating motorbus services on an extensive scale. Thus, the future will see millions of dollars put into up-to-date stations, and judging from steps already taken and projects actually proposed, the South will go forward with such work on a big scale.

## Chain of Tourist Service Units

### First Group of Combined Service-Stations and Hotels Completed—Ultimately to Span Continent

Architect's perspective of a 40-room hotel with accommodations in the basement for storage of cars.



The hotel and terminal together make a complete unit for all needs of those who travel by motor car.

A CHAIN of de luxe automobile terminals and hotels—the terminals having complete facilities for servicing and repairing motor cars on highways in the Ozark Highlands throughout Missouri and Oklahoma—is now being established by the Pierce Petroleum Corp., St. Louis, in an effort to provide the utmost in comfort, accommodations and service at stopovers 24 hours of each day in the year. Known as the "Pierce Pennant Terminal and Hotel System," this is an experiment in direct advertising, according to officials of the promoting corporation, but not an experiment in plans, methods, construction or quality.

An exhaustive research made by these officials indicated that throughout the petroleum industry generally the main product, gasoline, was being distributed at a loss and that the business was making its money on lubricating oil, pipelines, refining and other activities. It became evident that the business of distribution would have to be allied with some other line if it were to be established on a profitable basis. A careful study of motoring showed that highways and highway-marking methods were

steadily being improved, but that very little was being done for the comfort and maximum convenience of the users of these highways. Hotels had been placed near railway stations, reflecting the history of the past 50 years, and these hotels were often in inconvenient locations so far as the motorist was concerned.

One of the revelations of the investigation was that facilities of a well-appointed bathroom would be of cardinal service to the automobilist. With this as a lead the corporation decided that feeding, lodging and attending to the personal wants of the highway traveler was the business which could successfully be combined with petroleum distribution. This decision led to the establishment of the present system of hotels and terminals; and terminals were opened during the summer at Rolla and Columbia, Mo., and at Miami, Okla., and Tulsa, and hotels are to be completed and opened this year at both Rolla and

Columbia. So successful have these initial units proved that it is now planned to expand operations to transcontinental proportions along U. S. Highway 66 extending from Los Angeles to St. Louis and along U. S. Highway 40 connecting St. Louis with New York. It is on these highways that the first units are situated. Two new terminal and hotel groups are to be located near Oklahoma City, Okla., and near Springfield, Mo., as the next move. At Springfield a bus terminal is already being operated by the Pierce interest.

Each "Pierce Pennant" unit includes a terminal building and a 40-room hotel building, both of Colonial design, large, fireproof and well furnished, located on a plot of at least 10 acres and fronting for a minimum of 600 feet on a highway.

Terminals have a restaurant seating 160 persons; a rest room and lavatory for women; a main lounge for men and women; a lavatory for men, and a modern laundry for hotel linens and for rendering quick laundry service to guests; heating and refrigerating apparatus, and complete automobile service station equipment. A modern motor ambulance is kept always in readiness to



One of the Pierce Pennant Terminals Near Tulsa, Okla., Showing Hotel and Service Station Facilities.





Women's Rest Room, and Emergency Hospital



Restaurant in a Motor Terminal Hotel

make runs far from base and bring injured and ill persons to the emergency hospital in the terminal or to take them to any hospital in the city nearest the terminal, free of charge to motorists.

Entrance to the terminal is by a white-pillared canopy under which tourists alight and pass into the main lounge. At the rear of the room, opposite the main entrance, is the soda fountain and sandwich department. Tables are provided in the lounge to accommodate 50 guests. In the cool of autumn and early spring logs blaze in the open fireplace at one end of the room; in summer the lounge is cooled by large ceiling fans. To the left of the main lounge are the French Renaissance lounge and rest room for women, contrasting with the Colonial simplicity of the main room; also the women's lavatory with floors of inlaid rubber and walls finished in white marble and chromium.

Adjoining is the emergency hospital equipped with three hospital beds, tables and chairs, and three trundle beds for infants. A trained nurse is in attendance. In this department is a standard hospital operating table, with surgical instruments, supplies and appliances necessary for emergency and even for

major operations. A large double door makes it possible for the ambulance to back up to the entrance.

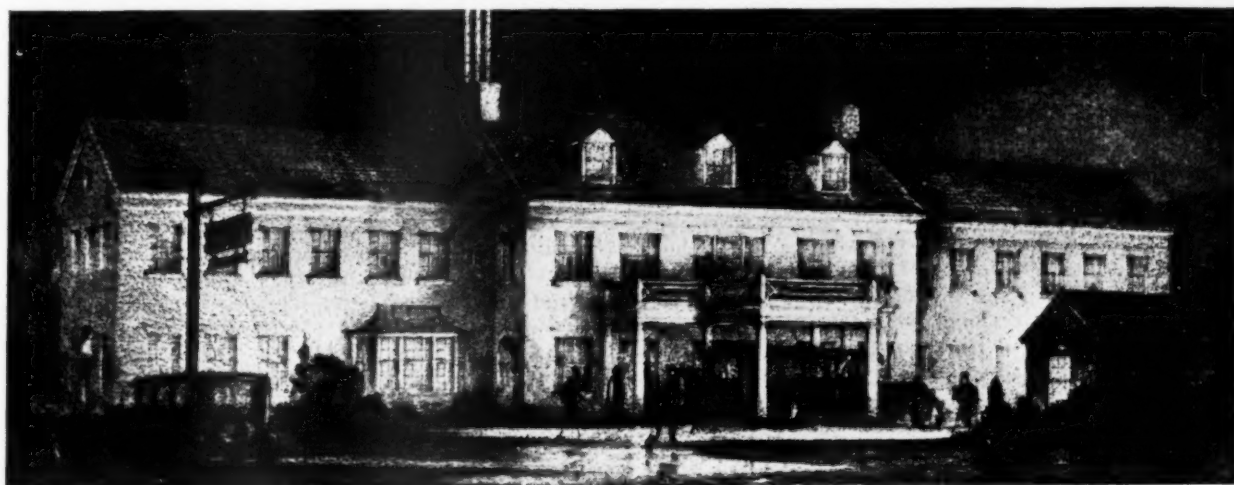
To the right of the main lounge are men's lavatory, manager's office, linen room, and dining room and lavatory for negro chauffeurs. A wide stairway gives access to the dining room, occupying two-thirds of the second floor of the building, the remaining third used for kitchen purposes. This room can be divided by folding door at the junction with the main and auxiliary room, is equipped with both radio and phonograph and is available for dancing.

Hotels are immediately adjacent to terminals. Lower floor of the hotel, partly below ground level, is devoted to a garage sufficiently large to accommodate automobiles of all the guests. Arriving, the hotel garage guests give orders if their cars need gasoline, oiling or greasing; during the night each automobile, regardless of other servicing, is cleaned by a vacuum process; all glass is washed and polished and necessary air and water are provided. There is no charge, either for this service or for storage of guests' cars.

Immediately above the garage is a floor with 16 guest rooms, a similar num-

ber being on the second, with eight on the third floor. All are outside rooms, 12 by 16 feet, containing double beds and private bath. Bathrooms are floored and wainscoted with rubber tile and equipped with circulating ice water, hot and cold water, tub and shower. Hall floors are carpet covered and all woodwork in halls and bedrooms is covered with steel-cote. Guests are invited by the management to do such washing of clothes as is desired in their rooms; for convenience an electric drier, a folding ironing board and an electric iron are installed in the closet of each room. Laundry in the terminal building is operated at night; tourists delivering soiled clothing to hotel employees before 9 P. M. may have it laundered and receive it at any time desired after 4 A. M.

Observations made by the corporation indicated that the average number of occupants of a tourist car was three and that usually all three wished to use the same room. For this reason, rooms were designed to be large in size and equipped with double beds. Rates are \$4 for one person in a room, \$6 for two, \$7.50 for three and \$9 for four people. Charge for chauffeur's room, which does not have private bath, is \$1.



Architect's Perspective of Pierce Pennant Station, of Colonial Design

# American Mining Congress Rededicates Itself to Proper Utilization of Country's Mineral Wealth

By GEORGE GARNER.

Washington, December 7.

Always of constructive interest and value in its particular field, the annual convention of the American Mining Congress this week broadened the scope of its deliberations and assumed a prominent place in the general business councils and activities which now engage official and private industrial attention. The "signal industrial leadership" of President Hoover was commended, and the mining industry in all its ramifications promised to him its earnest support.

The general sentiment of the convention was expressed by Secretary J. F. Callbreath, "Hats off to the past and coats off to the future," while in particular President Robert E. Tally said:

"The greatest service that the American Mining Congress can render to the mining industry and to the Nation is cooperation directed to the proper utilization and conservation of the country's mineral resources."

In the development of these resources and the manufacturing and marketing of their products, Mr. Tally discerned tremendously important factors in the prosperity and prestige of the country.

Prompted by the importance of the subject to both the mining industry and the Nation as a whole, two resolutions advocating proper and adequate flood control were adopted with deep earnestness, one by the Southern Division and the other by the entire convention. As the convention saw it, President Hoover is eminently correct "in withholding authority for construction of that part of the Mississippi River flood control project which would destroy the natural gas and other resources in southern Arkansas and northern Louisiana until the matter can be reviewed by engineers and new recommendations be made to Congress." The Southern Division strongly favored flood protection, and also emphasized the necessity for protecting the natural gas resources of the two States mentioned.

Incidentally, the Southern Division decided that the sessions for 1930 of the Industrial Development Conference should be held next March at Little Rock, Ark., which won the distinction after stiff competition by Louisville and Ashland, Ky.; Asheville, N. C.; Atlanta, Shreveport, Memphis, Houston, Mobile, Virginia Beach and Old Point Comfort.

Among the officers elected by the convention were: President, Robert E. Tally, Clarkdale, Ariz.; secretary, J. F. Callbreath, Washington, D. C., and W. J. Jenkins of the Consolidated Coal Com-

pany, St. Louis, a director for three years.

On the whole, the prevailing sentiment at the convention was soundly optimistic, without exuberance. Stabilization was felt to be the greatest requisite for protection against depression in business and as a foundation for profitable progress in the future, in mining and other industries and in finance and commerce. As the resolution phrased it, in commending President Hoover:

"By his aggressive action in calling together the leaders in all branches of the industrial and productive life of the whole country, he has brought about a nationwide cooperation never before attempted in time of peace. In this way, he has allayed fear and restored national confidence. The whole country is assured that every avenue of trade will be quickened, transportation facilitated and employment extended in all sections of our land.

"We take great pleasure in expressing our confidence in and pledging our support to the successful carrying out of the national industrial policies and productive programs presented to the collective industrial leadership of the country by the President."

While supporting the President in his search for a solution of the public land situation, the convention opposed any policy which shall separate the surface from the subsurface rights of the lands, and opposition was expressed to proposed legislation forbidding surface rights to lands taken under mining locations in national forests, on the ground that it will injure and embarrass necessary development of the mineral resources of the public lands States. Prior opposition to Federal legislation regulating the sale of securities was expressed, and another resolution favored a depletion and depreciation rate of 33½ per cent, but preserving to mine taxpayers whose depletion base has been previously established the right to continue depletion under that method.

In regard to over-production in mining, the convention found difficulty in meeting the situation, because of legal restrictions under the Anti-Trust laws, and a committee was named to study "the evils of over-production and the hurried exhaustion of the natural resources," and to recommend remedial legislation. The committee, in effect, is "to seek a solution of the problem, in order that natural resources be conserved and mining be placed on a more sound and businesslike basis."

Improved conditions in the zinc industry for next year were visioned by M. D.

Harbough of Joplin, Mo., as greater use of zinc is to be advertised on a national scale by the industry. The zinc industry, he said, has not yet recovered from a drop in the market last October, but he looked for brighter days to come.

Bituminous coal production has not suffered from the recent break in the stock market and its financial situation is normal, said A. H. Willett of the National Coal Association, adding that bituminous production this year will exceed that of 1928 by 25,000,000 tons.

First saying that the copper industry has not fared well since the war, as the average price for the past five years has been lower than that for the 20-year period before the war, Mr. Tally added:

"But the copper industry has the courage to take advantage of periods of depression to prosecute its research, development and construction campaigns. Large amounts of copper will be needed for the future industrial expansion of the country and the domestic copper resources are not large. The same condition exists in connection with zinc resources. Both industries have been developed and, while there has been some individual curtailment, it has not been altogether effective."

Also, Mr. Tally felt that future expansion in the production of electric power will be largely from fuel, "as most of the low cost hydro-electric projects have been developed," and he suggested foresight in the conservation of iron ore and fuel for their use in the production of steel and electricity in view of the very large increase in the consumption of those commodities. Collective curtailment, he added, is the only remedy for over-production. The coal, iron, copper and zinc mines, he felt, had been "developed beyond consumption requirements" and under these conditions "there is a natural inclination" to excessive production.

"If industry follows the maximum production theory, low prices, wages and inadequate earnings will result," he concluded.

As his contribution to the various deliberations, F. A. Merrick, president of the Westinghouse Electric and Manufacturing Company, spoke on "The Machine Myth," saying:

"The use of labor-saving machinery increases the demand for labor and tends to raise the standard of living of workers, provided employers share the savings effected by the machines with their employees."

As usual, the annual banquet was a feature of the convention, Representative John M. Robison of Barbourville, Ky., chairman of the Committee on Mines and Mining, acting as toastmaster.



# \$30,000,000 for Southern Dairy Developments

**Foremost and Southwest Dairy Products Companies Consolidate and Plan Extensive Operations—J. C. Penney Lauds Dairying Possibilities of South**

C. M. Conway, vice-president of the Foremost Dairy Products, Inc., Jacksonville, Fla., which recently merged with the Southwest Dairy Products Company, Dallas, Tex., under the direction of J. C. Penney, New York, chairman of the board of the former organization, is quoted in Arkansas papers as announcing that \$30,000,000 will be expended for improvements, new construction, acquisition of new properties and establishment of demonstration dairy farms, approximately \$2,000,000 of the total to be expended in Arkansas, \$500,000 to be used for constructing a dairy plant and \$1,500,000 for improving present plants and acquiring new properties. Expenditures in other states, it is said, will include \$5,000,000 in Texas, \$2,000,000 Louisiana, \$2,000,000 in Alabama, \$500,000 in Mississippi, \$2,000,000 in Georgia, \$1,000,000 in Florida, \$500,000 in South Carolina and \$1,500,000 in North Carolina. In addition it is proposed to expend about \$10,000,000 for the acquisition of new properties in new territories, according to the press reports.

The consolidated organization plans expending approximately \$6,000,000 for establishing demonstration dairy farms and in co-operative work with dairy farmers already established, it is announced, the farms to be a feature of the program initiated by Mr. Penney. By far the major part of operations will be carried on in the South, including banking, building and the production of milk products. New plants will be built for production of powdered milk, evaporated milk, cheese and butter and existing plants enlarged, making ice cream, buttermilk, butter and pasteurized sweet milk. New work at present under way includes a \$500,000 plant soon to be opened in San Antonio, Tex., and a similar plant in Atlanta, Ga., while plants in Jackson, Miss., and Shreveport, La., and at other points are being remodeled. One the newest of the model dairy plants was recently opened in Charlotte, N. C. The company also plans development of plants for making bottles and other containers and will expend large sums for motor transportation equipment, refrigeration, ice cream-making and pasteurization equipment.

Demonstration farms are in operation at Tampa, Fla., and Savannah, Ga., and sites are being investigated in other states for similar projects where the consolidated company operates. The farms will not be conducted along competitive lines to affect local dairy farm-

ers but will serve as educational farms and as breeding stations, it is said, co-operating closely with state universities and other educational forces for betterment of dairy conditions. It is understood that the company has a representative in the Pacific Northwest purchasing 500 head of purebred dairy stock for distribution to farms of the organization. Calves from this stock will be graded and only the finest kept, to be available for dairy farmers.

Following a series of meetings at various points throughout the territory in which the company operates, details of the merger will be announced. These meetings, it is said, are being attended by Mr. Penney, Mr. Conway, Burdette G. Lewis, president of the Foremost organization; Claude M. Dawley, Dallas, in charge of finance, and by representatives of the New York, Pittsburgh and Chicago banking houses of George M. Forman & Co., Chicago, and Moore, Leonard & Lynch, New York.

In recent public statements Mr. Penney declared that dairying promises to be one of the future big industries of the South. He urges business interests of the South and Southwest not to let gains from other sources of income blind them to undeveloped resources of this great industry, pointing out that there is a possible gross income per year for the South of not less than \$300,000,000 from dairy products alone. Proper distribution and proper breeding of cattle, he declares, are the only phases of the industry to be developed, as the others have been bestowed by Nature. Diversification, he says, is a great need of the South and by way of justification he recounts that Mississippi has proved that dairying pays a greater return per acre than cotton, and that in Alabama a monument has been erected to the boll weevil, because through destruction wrought the farmers were attracted to dairying and other profitable diversified activities.

Clarifying his statement that there is a potential \$300,000,000 a year gross income for the South from dairy products, Mr. Penney explains that in one Southern state with an annual consumption of butter of 50,000,000 pounds, less than 5,000,000 pounds are produced in the state, some of the butter used coming from New Zealand, 21 days by boat to the Pacific Coast ports and 7 days by freight to the state in which it is used. This situation means a great economic waste. Mr. Penney estimates that \$21,-

000,000 went from the South last year to Northern ice cream companies during the months of January, February, March and April.

## Montgomery County, Maryland, Plans \$1,750,000 Construction Program

Rockville, Md. — The Montgomery County Commissioners, Berry E. Clark, clerk, announce a construction program to involve an expenditure of approximately \$1,750,000. Work planned includes a \$400,000 courthouse to be let to contract soon, construction of county roads costing \$300,000, new county school buildings to cost \$200,000, the expenditure of \$500,000 for park roads and recreational centers, water and sewer system extensions in suburban sections to cost \$250,000, and for street and sidewalk improvements in the same sections.

## Wise Spending Builds Up Trade

It is no extravagance to spend money largely, but rather it is wasteful to be penurious, declared Charles F. Abbott, executive director of the American Institute of Steel Construction, in an address before the New England Foundrymen's Association. Industrial and commercial success, he said, has been predicated upon a courageous expenditure of funds and a willingness to be generous in all worthy efforts.

"It is just as much industry's duty to make markets as it is to make goods," said Mr. Abbott. "That is what I call this new era of rationalization. Short-sighted economy ideas are a drag on trade and industry is in need of more executives who have the courage to do things in a big way. Large sums are today spent on consumer advertising, but they will seem small in comparison with what is going to be spent in the future."

In addition, he said, we must use the same methods to inculcate a consumer acceptance of basic raw materials, and reminded his hearers that:

"We are doing a greater and better job in advertising than we ever dreamed of doing in the old days. It is costing more money but it is breaking down resistance, promoting bigger things because it is genuinely creative spending. The technical and industrial field is rapidly coming into the bigger sphere of usefulness, and he is a bold man who can predict where this era will end."

# Don't Sell Florida Short Now

State After Readjustment Period Now Experiencing Big Volume of Building and Construction

By CARROLL E. WILLIAMS.

"HOUSE cleaning is the order of the day throughout Florida; so in all parts of the state efforts are afoot to clear the way for building and industrial projects, municipal construction, public utilities expansion and for a wide variety of activities previously slowed up because of the after effects of the 'land boom' and more recently due to the inability to obtain money, except at prohibitive interest rates, for legitimate construction projects because of the widespread speculation in Wall Street and the diversion of funds to that field. Skies are clearing and the outlook is exceedingly bright, and a big movement is under way to build on a firmer and more substantial foundation Florida's future prosperity. In the words of a careful observer of national conditions: 'Don't sell Florida short.'"

This is the statement presented to me by J. W. Leroux, district manager for the Nashville Bridge Co., at Tampa, Fla., whose work brings him intimately in touch with construction and building activity in many lines of endeavor, both private and governmental. That the general forward movement is well advanced in the state is evidenced by the big volume of construction and building now in progress and projected, and Mr. Leroux substantiates his claims for Florida by a brief summarization of some outstanding projects in all parts of the state regarding which announcements have been made recently.

Mr. Leroux points with gratification to a compilation of building statistics for Tampa, just made by the city administration and the local Chamber of Commerce, showing enterprises definitely planned involving expenditure of over \$8,000,000. Passage of a \$750,000 bond issue for establishment of a municipal airport will permit work to begin early in the spring. Other projects on which work is proceeding and proposed undertakings include: Extensions to manufacturing units of the United States Phosphoric Products Co., estimated to cost \$1,500,000; completing the huge plant of the American Cyanamid Co., preliminary work on which began this year, \$3,000,000; completing the Tampa-Clearwater Causeway at a cost of approximately \$2,000,000, the project being promoted by interests associated with the United Dredging Co.; building the Tampa-Ybor Channel bridge in which

J. A. Mortland is interested; completion of the Federal building improvements to cost \$500,000. In addition to the major projects large sums in the aggregate will be expended for roads and streets, sewers, small bridges, and other work.

That Florida is attracting the attention of nationally-known developers and financial interests who will expend many millions in developments of a varied character is indicated by recent acquisition in the state of a group of eight hotels by Barron G. Collier and establishment of a number of national banks in Florida towns and cities by the Alfred I. duPont interests of Jacksonville, Mr. Leroux points out. "Besides, the latter interests are promoting the building of a number of toll bridges and approach roads estimated to necessitate the expenditure of \$5,000,000, in connection with the development of an extensive acreage of waterfront property," says Mr. Leroux.

"Work is under way on a bridge to cost several millions of dollars across Pensacola Bay for Johnson, Drake & Piper interests," declares Mr. Leroux. "Arrangements have been made for financing the building of a big bridge across the St. Johns River at Jacksonville and necessary approach roads to cost approximately \$7,000,000. An important state highway bridge is to be built near Punta Gorda, Fla. In the vicinity of St. Petersburg three costly bridge projects are proposed to shorten distance on several important highway routes.

"Work is to get actively under way next spring at Miami Beach on a residential development project sponsored by prominent automobile manufacturers of Detroit, to provide for the building of ship channels, a yacht club, docks, reclamation of land, tennis courts and golf links and auxiliary developments in connection with building a group of fine residences.

"At Jacksonville work is to get under way soon on the Crane Building to cost several hundred thousand dollars; on a building for the post office department; on a proposed \$750,000 hospital, and on numerous smaller undertakings in business and residential construction.

"At Clewiston the Southern Sugar Co. and the Celotex Co., headed by B. G. Dahlberg, Chicago, have under way one

of the most important industrial projects in the South, to involve ultimate expenditure of over \$30,000,000, providing for growing sugar cane on several hundred thousand acres of everglades land; the utilization of this cane for the production of sugar at several huge plants, one of which is already operating; and the utilization of the bagasse, formerly considered waste, for the manufacture of insulating and building boards.

"The success that has attended the operations thus far of the big plant of the Tampa Union Terminal Co., completed early in 1929 at Tampa for the cleaning, coloring and packing of citrus fruits and for storing these and other commodities, together with a dock for water shipments, is attracting widespread attention," Mr. Leroux declares, "and indications are that a number of similar plants may be established at strategic points throughout the state to handle products of groves and farms, which should greatly stimulate agricultural prosperity in the state. Many ships, specially fitted with refrigerating apparatus, are already carrying Florida citrus fruits to Europe and elsewhere. Closeness of the port to the Panama Canal also facilitates shipments to Central and South American countries. The transportation system to and from Cuba, Central and South America has recently been augmented by initiation of airplane service for mail, express, light freight and passengers."

Because of the increase in shipping at Tampa a movement has been launched, says Mr. Leroux, for building a large capacity drydock and that facilities at the port are taxed is revealed by the fact that on a recent day five ships were waiting their turn to get into dock.

Tampa cigar factories turned over 56,000,000 cigars in November, an increase of 2,000,000 over October output. The output for 1929 is now within 13,000,000 of last year at this time.

Mr. Leroux further comments as follows:

"The trouble over the Mediterranean fruit fly is about over. Inspection of travelers' baggage is now perfunctory. Gradually problems in connection with the settlement of real estate transactions are being solved; big acreages are being turned back into groves and farms and land values re-established. Indeed, it seems a good time to buy Florida real estate. The new year will certainly find the state busy and developing in a rather satisfactory manner generally, with the outlook particularly bright for substantial continuing progress. There are more tourists in the state on both the East and West coasts than ever before, careful observers tell me. Florida is definitely on the mend."



## Florida Business Men Denounce Federal Government's Inheritance Tax Plan

At its annual meeting held in St. Petersburg, December 3, the Florida State Chamber of Commerce passed the following resolution denouncing the Federal inheritance tax plan of the Government:

"Whereas, the people of Florida, by an overwhelming majority, adopted a constitutional amendment prohibiting the state from levying in the future any inheritance or income tax; and,

"Whereas, the Congress of the United States, in enacting the present revenue law, provided therein for a Federal inheritance tax, but allowing those states that have inheritance taxes a credit to the extent of 80 per cent of the taxes so paid, the avowed purpose of which was to force the states of Florida, Alabama, Nevada, and others similarly situated, to levy an inheritance tax; and,

"Whereas, taxing the dead, either by Federal or state legislation, is a capital levy and should not be resorted to except in time of war or other grave emergency; and,

"Whereas, Congress, by rebating to the respective states that have inheritance tax laws credit for 80 per cent of the taxes so paid, admits and concedes that the Federal Government does not need the revenue; and,

"Whereas, the Federal tax is no longer a revenue-producing one, but simply remains upon the statute books for the purpose of forcing sovereign states indirectly to do that which Congress cannot force them to do directly; and,

"Whereas, the action of Congress in endeavoring by Federal legislation to coerce a sovereign state into enacting legislation contrary to the wishes of the people of that state in a question of purely local concern is unprecedented, arbitrary, indefensible, and contrary to the fundamental principles upon which our form of government was founded; and,

"Whereas, the legislature of Florida, at the session of 1929, adopted a proposed constitutional amendment to be submitted to the people at the general election to be held in November, 1930, the purpose of which amendment is to permit the state of Florida to levy inheritance taxes so long as a Federal inheritance tax shall remain; and,

"Whereas, the adoption of this proposed constitutional amendment by the people would be an act of bad faith with those people who have moved into the state, invested their money here, and constituted themselves citizens of Florida, since the adoption of the constitutional amendment prohibiting any legislature in the future from ever levying a state inheritance tax; and,

"Whereas, the trite old aphorism, 'honesty is the best policy,' is true alike of individuals and states and vital to their highest welfare; and,

"Whereas, if the proposed constitutional amendment submitted by the last legislature should be adopted and the state enlarge its expenditures according-

ly because of the added revenue, the authorities would find some method of continuing forever the levying of inheritance taxes in this state; and,

"Whereas, relief to the over-burdened tax payer of this state can come, not by finding new sources of revenue, but by an economical administration of affairs by the cities, the counties, and the state,

"Therefore, Be It Resolved: That we protest against the continuance of the present Federal inheritance tax as unnecessary, uncalled-for, indefensible, without justification, and contrary to the fundamental principles upon which this republic was founded; that we reaffirm our confidence in the wisdom of the people of Florida in adopting the constitutional amendment prohibiting the legislature of Florida in the future from ever levying any state income or inheritance tax; and that the state of Florida declines to be coerced into repealing the constitutional provision forbidding the levying of taxes upon the estates of dead men, but avows its intention of forever maintaining and continuing the constitutional amendment in question.

"Be it further resolved: That honesty and good policy demand the rejection of the pending constitutional amendment adopted by the last legislature; and we earnestly urge the people of the state to vote against it.

"Be it further resolved: That we call upon our Senators and Representatives in Congress to demand the repeal of the present socialistic, communistic, federal inheritance tax.

"Be it further resolved: That copies of these resolutions be sent to the President of the United States, the Secretary of the Treasury, our Senators and Representative in Congress, the President of the Senate of the United States, the Speaker of the House of Representatives of the United States, the chairman of the United States Senate Finance Committee, the chairman of the Ways and Means Committee of the House of Representatives of the United States; and to the press of this state and of the nation."

### Georgia Forest Fair Successful

The second annual state forest fair of Georgia, held at Valdosta November 21-23, proved quite successful, according to State Forester B. M. Lufburrow of the Georgia Forest Service, under which organization the fair was held. About fifty exhibitors, representing federal and state forestry agencies, naval stores and lumber associations, forestry associations and commercial concerns, displayed instructive and interesting exhibits touching reforestation, forest protection and uses of woods.

A practical feature was the field demonstration carried out in near-by forests where federal and state experts showed how to construct seed beds, plant trees, thin forests, construct fire breaks and

how to chip pines for the most economical production of naval store products.

At one of the programs held daily in the exhibit building, it was shown that Georgia now has 100 vocational schools with school forests. A feature of the exhibits was the emphasis laid on products of the pine, particularly longleaf and slash pines. Lessons in the use of wood waste were also given.

### To Vote on \$570,000 Bonds

El Paso, Tex.—An election will be held here next year on a bond issue of \$570,000 for school construction to include a new building for the Government Hill section and additions to the Alamo and Rusk schools. In addition to funds anticipated from the sale of these bonds, there will be \$807,000 for maintenance.

### Plan Big Apartment Development

Washington, D. C.—As the first step toward constructing a group of 30 apartment buildings, interests represented by McKeever & Goss, Inc., this city, have purchased at a price of nearly \$3,000,000 a 28-acre site located just west of Wisconsin Ave., south of Massachusetts Ave., and bordering on Cathedral Ave. and Glover Park. Construction on the project is expected to start in the spring.

### Bidders on \$3,500,000 Baltimore Postoffice

Drawings and specifications for the new \$3,500,000 postoffice to be erected in Baltimore under the supervision of the office of the Supervising Architect of the Treasury Department, Washington, have been supplied to the following prospective bidders: Aronberg-Field Co., Inc., Columbia Construction Co., Agostini Bros., Pierce Steel Pile Corp., and James Stewart & Co., Inc., all of New York City; Seglin Construction Co., Inc., Buffalo, N. Y.; Ralph Sollitt & Sons Construction Co., the N. P. Severin Co., both Chicago; Van Asdlen Construction Co., Philadelphia; J. Henry Miller, Inc., M. A. Long Co., Columbia Engineering Co., and the Consolidated Engineering Co., Inc., all of Baltimore; Davis-Wick-Rosengarten Co., the Wardman Corp., George A. Fuller Co., and the English Construction Co., all of Washington, D. C.; Algernon Blair, Montgomery, Ala.; Murch Bros. Construction Co., St. Louis, and John Gill & Sons, Cleveland, Ohio. Bids will be opened January 6 for the demolition of the old building and the construction (except elevators) of the new one, which will be 6 stories, basement and sub-basement, 233 by 278 feet, of stone face construction.

## Southern Tariff Association Asserts Its Rights

To Present Before Congressional Committees a Tariff Policy That Will Give the Farms, Factories, and Mines of South Opportunity to Compete in Domestic Market—Half of \$200,000 Annual Budget Raised at Special Meeting to Carry Forward Organization Work

[Special Correspondence Manufacturers Record.]

New Orleans, La., December 5.

Representatives of the Southern Tariff Association from 10 Southern states, meeting at the St. Charles Hotel, Thursday for a "Round Table" discussion of the accusations leveled against the Association and its Washington representative, J. A. Arnold, in the recent "lobbying" probe by the Caraway Senate Committee, unanimously adopted resolutions affirming the right of the organization to present its case before committees of Congress, declaring its intention of continuing the work of raising \$200,000 for that purpose next year, and endorsing the official acts of Mr. Arnold and extending him a vote of confidence and thanks.

Resolutions adopted by the meeting are as follows:

"We point with pride to the growth of tariff sentiment in the South since the organization of the Southern Tariff Association, and we pledge our continued effort to the consummation of our purposes, as outlined in our declaration of principles as adopted at our initial meeting.

"We declare the primary work of the Southern Tariff Association to be within the Democratic party in educating, locating and organizing sentiment for a tariff policy that will give the farms, ranches, factories and mines of the South an opportunity to compete in the domestic market.

"We are no longer content to pray,

petition and plead with our Representatives in Congress to support adequate tariff duties upon the products and labor of the farms, ranches, mines and factories of the South. We demand it.

"As Americans we rely upon our constitutional guarantees and the sacred rights assured to us under the Bill of Rights and especially that provision of that sacred document which forbids the Congress to pass any law abridging the right of the people to petition the Government for a redress of grievances. The Southern Tariff Association has relied upon that solemn promise of the Bill of Rights and has done nothing and proposes nothing except that which is authorized thereunder.

"We shall continue to maintain an agency in Washington to keep committees of the House and Senate and members of the Congress informed as to our needs; to keep our membership advised of the progress of legislation affecting their welfare and to perform such other service as the executive committee may outline from time to time.

"To properly discharge the responsibilities assumed by our organization in the legislative, educational and organization work will require a fund of \$200,000 per annum. We urge all friends of Southern progress to join with us in giving moral and financial support to the movement.

"We endorse the official acts of our Washington representative, J. A. Arnold, and extend to him a vote of confidence

and thanks for the service he has rendered the South. We express our faith in his integrity and complete confidence in his fidelity and honesty.

"We urge upon the Congress of the United States to speedily pass the tariff bill for the relief of the entire country.

"We recommend the setting up of state and district organizations with state, congressional and county committees charged with the responsibility of making permanent a tariff sentiment that will express itself in Congress in favor of preserving productive pursuits in this country from foreign destructive competition; these units to form such affiliations with the Southern Tariff Association as in their wisdom may seem proper.

"Resolved, That every delegate to this convention authorize their signature as approving the annual address of President Kirby and that it be given wide circulation throughout the South.

"Be it further resolved: That it is the unanimous verdict of this convention that John Henry Kirby is the most useful citizen in the advancement of industrial and agricultural interests of the South and that this resolution be fittingly engraved and presented to him as a token of the affection and appraisal of his value as a citizen to the South."

One-half of the \$200,000 annual budget was raised at the meeting, the delegations from Florida, Texas and Louisiana each underwriting \$25,000.

### Backs Missouri Pacific Merger

Washington, D. C.—Examiner O. D. Weed of the Interstate Commerce Commission, recommends to that body that the Missouri Pacific Railroad Company be granted authority to carry out its unification program by acquiring control under lease of the following properties: The New Orleans, Texas & Mexico; the International-Great Northern; the St. Louis, Brownsville & Mexico; the Orange & Northwestern; the New Iberia & Northern; the Iberia, St. Mary & Eastern; the Houston & Brazos Valley; the San Benito & Rio Grande Valley; the San Antonio, Uvalde & Gulf; the Sugar Land; the Rio Grande City; the Asherton & Gulf; the Asphalt Belt; the San Antonio Southern; the Austin Dam &

Suburban; the Beaumont, Sour Lake & Western; the Houston North Shore; the Natchez and Southern; the Natchez & Louisiana; the New Orleans & Lower Coast, and the Fort Smith Suburban. If approved by the commission, the unification would give the Missouri Pacific direct control of the roads it now operates as individual properties.

### St. Augustine Sells Bonds

The Commercial Bank of St. Augustine, Fla., advises that the city of St. Augustine, has sold a block of \$370,000 refunding bonds, a portion of an issue advertised for sale October 23. The bond trustees are holding \$135,000 refunding bonds for private sale early next year.

### Iodine Research in North Carolina

A great aid to truck farmers in North Carolina is expected from a study of iodine content of the state's vegetables by the research laboratories of the State College. Investigation of vegetables in South Carolina has shown what is called the highest percentage of iodine known in any region, the iodine content of spinach averaging 625 for South Carolina against a high elsewhere of 26; that of asparagus being 574 in South Carolina compared with a high figure elsewhere of 12, and some others in similar proportion. Biologists and chemists are quoted as saying that the soils and topography of North Carolina promise a similarly high iodine content in that state.



# IRON, STEEL AND METAL MARKET

## Better Sentiment in Steel, Though Trade Is Duller

Pittsburgh, December 9—[Special.]—The steel trade has grown duller on the whole, just as is regularly the case at this time of year. The common remark is that "sentiment" is better, which means that business men are less fearful of the future than they were. This is a doubtful assurance to the public, because the fears which are now lessened had not been publicly expressed.

Opinion as to the future is now more definite. The outstanding feature of the present appraisal, as compared with what was being said immediately after the stock market collapse, is that much more attention is being paid to the fact that for several months before the break trade had been on the down grade. A trustworthy and simple measure is the Federal Reserve Board's monthly index of industrial production, manufacturing and mining, which is carefully compiled and is adjusted for seasonal variation. The index is based upon 1923-45 as 100, and it had been rising about two points a year to June, 1928, whereupon it rose 17 points to June, 1929, which was given at 126. Monthly thereafter there were decreases, and October, just reported upon, stands at 117. In steel production the bulge after June, 1928, was still more marked, and the decrease in the last few months has likewise been greater. It is concluded, therefore, that quieter times were coming if there had been no break in the stock market. There is confidence now that the direct effects of the stock market break will not be large. Business failures in the last four weeks reported on by the Department of Commerce, all after the stock market break, were a fraction of one per cent under those of a year previous.

Steel ingot production is now down to a rate not much above 65 per cent. It was practically 100 per cent in May, about 90 per cent October 1 and about 80 per cent November 1, the point about this being that there was a large decrease before the performance of the stock market could have any results. There was a general decrease, noteworthy because it did not yield to the usual autumn influence to produce an increase, and of late there has been normal and natural seasonal decrease. The stock market break has merely accentuated the decrease somewhat. Present expectations are that there will be an increase in steel demand after the first of the year, as has been the case invariably after 1921, but more sluggish than usual.

There are very sharp contrasts in steel

requirements. Rail buying has been unusually early, presumably by request of the producers, and the total to date in the seasonal movement is nearly one-half greater than at this date last year. Comparing purchases of identical roads there is a trifling increase over two years ago but fully 15 per cent increase over one year ago. The Southern Railway has just ordered 44,200 tons from the Alabama mill while the Southern Pacific has distributed orders for 120,000 tons.

Another line making a favorable showing is freight cars. The car shops had been producing about 10,000 cars a month since April, their best rate for several years. October brought orders for 20,000 cars, November totaled over 6000 and over 6000 have been ordered thus far this month, while there is much inquiry out and in prospect. Thus the order books have been improved in two months.

Fabricated structural steel did very well to November 1, and the shops are well filled for from four to six months, but lettings in the last five weeks have been 40 per cent under the previous average.

The automobile industry makes a very poor showing, the preliminary report for November showing production of 214,400 units, 17 per cent under the November average for five years preceding, and less than one-third of last April's production, when average seasonal decrease in the last five years was only 40 per cent. The first half of this year was 47 per cent over the first half of last year and 37 per cent over the first half of 1926, previously the record first half.

Finished steel prices are holding very well all along the line but it is remarked that the really crucial test is still to come.

## Birmingham District Looks With Confidence to the New Year

Birmingham, Ala., December 9—[Special.]—New business in pig iron in this district is confined to spot orders and the aggregate is not very large. While a few sales are reported as having been made for the coming year, tonnage is light and in some directions the statement is made that books have not been opened for the first quarter. Confidence is expressed that there will be activity on the turn of the year. While one of the larger melters of iron reports but little business coming in and no need for production, future prospects are bright and by January 15 it is believed there

will be warrant for production and the melt started on.

Quotations on spot business are firm at \$14.50 per ton, No. 2 foundry. Much iron is still moving to points outside the home territory. One producer admits that effort is being made to move out a considerable tonnage before the holiday period sets in.

Republic Iron & Steel Company broke records with its two blast furnaces at Thomas, this city, during November, placing on yards 27,660 tons of pig iron. No. 1 furnace made 14,130 tons of iron or an average of 471 tons daily, while in January, last, the same furnace produced 12,951 tons of iron, or a daily average around 431 tons.

Estimates are that the aggregate coal, coke and pig iron production in Alabama for the year will exceed 1928. There is a big difference in the base-price of iron this year as compared to last.

Efforts are being made to clear as far as possible books on iron due melters, a large tonnage to be moved outside of the territory.

American Cast Iron Pipe Company is providing employment for nearly one-fourth of its labor complement in other duties than pipe making, the seasonal and financial depression being felt. Policy in the industry is to withhold production until orders begin to come in.

Steel mill operations continue steady. Railroad orders are being given attention though it will be 60 days before the bulk of the task will be in hand. Fabricating shops report many contracts in sight with shops now well supplied for the present month and into the coming year. Several structures are being planned in the South and Southeast which promise to require steel. Sheet, plate and structural steel are doing fairly well and other shapes are looking forward to greater activity. A slight recession is noted in the base prices on bars, structural and plates shapes.

Chief state mine inspector, W. B. Hillhouse, expresses opinion that Alabama coal production for 1929 will exceed that of 1928 and if fatal accident figures can be held to where they are at present there will be a material reduction in this direction, even considering one major disaster during the year. Demand for domestic coal is good while steam coal consumption is steady. Coke production is also steady and independent producers are moving their make right along.

Scrap iron and steel market is slow. Heavy melting steel is moving only fairly well while other items on the list continue sluggish with no change in quota-

tions, the price base being only tentative.

Pig iron and iron and steel scrap quotations are as follows:

#### PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$14.00 to \$14.50; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$14.50 to \$15.00; iron of 2.75 to 3.25 per cent silicon, \$15.00 to \$15.50; iron of 3.25 to 3.75 per cent silicon, \$15.50 to \$16.00.

#### OLD MATERIAL.

Old steel axles .....	\$17.00 to \$18.00
Old iron axles .....	17.00 to 18.00
Old steel rails .....	13.00 to 14.00
Heavy melting steel.....	10.50 to 13.50
No. 1 cast.....	12.00 to 13.00
Stove plate .....	11.00 to 12.00
No. 1 railroad wrought.....	10.00 to 11.00
Old car wheels .....	11.00 to 12.00
Old tramcar wheels .....	12.00 to 13.00
Machine shop turnings.....	6.00 to 7.00
Cast-iron borings .....	6.00 to 7.00
Cast-iron borings (chem.)..	13.00 to 13.50

### Little Business Being Done in the Metals—Tin at New Low

New York, December 9—[Special.]—There has been but little change in the metal situation. This is of course the season of the year when not much is expected in the way of metal business. The chief development was the dipping of tin prices to new low levels for the past six years, spot Straits tin having sold at 38½¢ per pound as against 39½¢, the previous low, made two or three weeks ago. Tin statistics showed that the world's visible supplies had declined 409 tons during November, standing at 25,171 tons. Straits tin shipments in November were 10,175 tons, which was close to predictions, while shipments in December are estimated to be 11,000 tons, which is none too optimistic. American tin deliveries last month were 6750 tons, below the average for the year and implying lessened consumption in this country.

Copper producers hold doggedly to the prices which have prevailed since April, or 18¢ for home delivery and 18.30¢ for export. Quotations are 2¢ per pound higher than a year ago at this time. Zinc ore has been reduced \$2 per ton further to \$38 per ton, a complete reduction since Nov. 1 of \$6 per ton, but meanwhile prime western slab zinc has fallen \$16 per ton. Yet many ore producers say they cannot make profits when ore sells below \$42 per ton. Those zinc companies which produce some lead as a by-product are making their profits on the latter metal. Lead demand is fairly brisk and prices are unchanged.

One bit of cheerful news is that automobile production this month will probably be heavier than for November because of improvement in producing schedules at the Ford and Chevrolet plants.

Steel operations are declining regularly at the rate of 2 per cent per week, the general average for the industry being 67 per cent of capacity as against 85 per cent a year ago. However, in the Youngstown district operations are gen-

erally no better than 35 per cent of capacity which is undoubtedly slowing down the consumption of zinc for galvanizing purposes. The railroads are the best customers of the steel makers and this year will have ordered double the number of freight cars ordered last year and 70 per cent more locomotives, all of which consume more or less non-ferrous metal.

Some of the minor metals have been inclined towards weakness. Silver prices are barely over 49¢ per ounce. Antimony is easier, selling at 8½¢ per pound, duty paid, which after all has been the average price over the past several months. Quicksilver is steady at \$124 per flask of 75 pounds.

Copper statistics for November will be issued late this week and are awaited with much interest as they may throw light on an uncertain situation. It is expected that shipments will show a sharp reduction; that surplus stocks of refined metal will increase quite markedly and that production will evidence a slight decline.

Export sales of copper have averaged about 750 tons daily as against 1000 tons daily for the preceding week. Domestic buying has been very light. All buying is restricted to delivery this year. Not in years has hand-to-mouth buying been so in evidence. Normally, half of January needs would be under contract and a quarter of February needs by now. There has undoubtedly been a falling off of consumption, some of which is seasonal and some of which is of more permanent character. Consumption in the electrical industry has shown the least defection.

Consumers of copper are evidently postponing their purchases as long as possible, first because there is a possibility of prices being reduced and, second, the nearness to inventory-taking causes the desire to keep copper stocks low at consuming plants. There has been no really active purchasing of the red metal since September and many believe that another buying movement will not come until the middle of next month.

Tin consumers are virtually out of the market, though they have bought moderately when new low levels were reached. The National Metal Exchange celebrated its first birthday on Tuesday. The next day prices sagged to 38.50¢ per pound in the December position, while later in the week sales were made at 38.10¢, a new low level in the history of the exchange.

Producers of zinc ore in the tri-State district have curtailed production to about half of what it was, though production is still in excess of sales. The international zinc cartel, meeting at Brussels, has found difficulties in keep-

ing producer members within the quota limits of production. A new scheme is being devised which it is hoped will put more pressure on producers to adhere to the rules of the cartel.

Producers of lead have opened books for January shipment, though there has been no rush to purchase for that delivery. Most of the business is in carload lots. Lead is perhaps the most active of the major non-ferrous metals.

### Order Textile Mill Equipment

Spartanburg, S. C.—The Spartan Mills have contracted with the Saco-Lowell Shops, Boston, Mass., and Greenville, for 25,000 long-draft spindles to be installed early in 1930. The new equipment will replace 25,000 of the present 85,000 spindles of the Spartan plant.

### 7-Mile Rail Line in Louisiana

Houma, La.—Authority has been granted the Southern Pacific Lines in Texas and Louisiana, R. W. Barnes, chief engineer, Houston, Tex., by the Interstate Commerce Commission to build 7.3 miles of rail line extension from Houma to a point one mile south of the intracoastal canal in Terrebonne Parish.

### Timber Treating Plant Under Way

Hagerstown, Md.—A new timber treating plant is being erected here by the Hagerstown Timber Treating Co., Inc., for which the following equipment has been ordered: Two cylinders, 6 by 84 feet; one 10 by 6 by 10-inch compressor with motor; one 17 by 10-inch vacuum pump with motor; one 150-horsepower boiler with feed water pump; material storage tanks with necessary pipe valves and fittings, and a full equipment of tram cars. The plant will do commercial treating of mine timbers, railroad ties, industrial lumber and poles.

### \$750,000 Water Supply for Rail Line

Toyah, Tex.—Approximately \$750,000 may be expended for constructing a 40-mile pipe line and a storage tank by the Texas & Pacific Railroad Co., E. F. Mitchell, Chief Engineer, Dallas. The railroad has applied to the State Board of Water Engineers at Austin for a permit to impound water in storage reservoirs in high altitudes of the Davis Mountains and to convey the water by gravity through a pipeline to a 1,000,000-gallon tank to be provided here. Ultimately it is planned to extend the line to Pecos, 19 miles east of this city.



# HIGHWAYS AND MOTOR TRANSPORT

## \$2,500,000 BONDS FOR ROADS

Nueces County, Texas, Votes Funds to Build Over 250 Miles of Highways

Corpus Christi, Tex.—The Nueces County Highway system will take its place among leading counties in the state following the completion of the program made possible by the voting of a \$2,500,000 bond issue recently. This bond issue voted by the county will improve highways totaling 256.35 miles.

The mileage of additional lateral roads to be built amounts to 159.1 miles. The issue will afford Nueces County a total of 97.25 miles of designated highways and a grand total of 256.35 miles of hard surface and all-weather roads. The Corpus Christi-Robstown highway will be widened to an 80-foot right-of-way with a 20-foot pavement. The state has agreed to pay two-thirds of the cost of this improvement and will supply \$717,000 in connection with the program.

County or lateral roads to be built under the program will be completed within two years, a longer period of time being necessary for others.

Ten Nueces County bankers have been appointed to assist the court in handling and selling of the bonds. They are J. E. Garrett, Geo. R. Clark, Richard King, Clark Pease, John T. Wright, L. D. Harrison, W. H. Daimwood, Henry Ganger, K. R. Hood, and William Harlan. Nat Benton is County Judge, of Nueces County, and Roy Clift, County Clerk.

## \$3,325,000 Road and Bridge Bonds

Mobile, Ala.—An offering of \$3,325,000 road and bridge bonds will be made by Mobile County on December 16, the issue to consist of \$2,600,000 bonds on which bidders are requested to name an interest rate not to exceed 4½ per cent, and \$725,000 bonds on which the interest rate is limited to 5 per cent. No bid at less than 95 will be considered.

## Bids on 20 Miles Roads

Frankfort, Ky.—The State Highway Commission opens bids December 27 for grading and draining approximately 15.5 miles of the Paynesville-Rhodella road with Concordia spur, in Meade County, and 3.9 miles of the Edmonton-Tompkinsville road in Metcalfe County, making a total of nearly 20 miles.

## May Sell \$1,500,000 Bonds

High Point, N. C.—City council will probably ask for bids this month on a bond issue of \$1,000,000 or \$1,500,000 to retire short term notes issued in anti-

cipation of the sale of water and sewer bonds. The amount involved represents expenditures by the city in the past three and one-half years for water and sewer improvements, including the completion of a municipal dam and water supply lake.

## \$885,000 Road Bond Election

Haskell, Tex.—Haskell County will vote December 21 on a bond issue of \$885,000 for highway improvements, to include the construction of the north and south sections of highway No. 30 which is the main Wichita Falls-Abilene thoroughfare. Sections of highways Nos. 51, 120 and 18, which cross the county, will also be improved.

## Plan \$1,000,000 Missouri Road

St. Louis, Mo.—Suit was recently filed by Walter Wehrle, of this city, St. Louis County counsellor, for the condemnation of property along the Antire road to provide for a new \$1,000,000 highway extending from St. Louis west through St. Louis County. Grading will begin at once, it is said, and completed within a period of two years. Initial operations will begin on a section of more than six miles, involving the construction of pavement, culverts and bridges between the Vandover road at Valley Park and the Votaw bridge. The road will consist of a 20-foot concrete slab on a 100-foot right-of-way. The project will be handled by the State Highway Department.

## \$73,000,000 Federal Aid Apportioned for Roads

Secretary of Agriculture Announces Authorization for Next Fiscal Year

Responding to President Hoover's suggestion that public building programs be speeded up and prudently expanded to promote business and prevent unemployment, Secretary of Agriculture Arthur M. Hyde recently apportioned among the 48 States and Hawaii \$73,125,000 authorized by Congress as Federal aid for road construction in the fiscal year 1931.

The Secretary announced that the State highway departments will be authorized to proceed immediately with preparations for the expenditure of the newly apportioned funds during the next construction season.

For work during the winter, where weather conditions will permit, and in the spring and early summer throughout the country, Secretary Hyde stated there is available a balance of \$28,000,000 of the Federal-aid funds previously apportioned, making a total of \$101,125,000 with which the Federal Government is prepared to match at least an equal amount of State money for expenditure on Federal-aid roads during the calendar year 1930.

The Federal fund is apportioned among all States and Hawaii in proportion to their respective areas, populations, and mileages of post roads, and the share of each State is available for expenditure on roads included in the Federal-aid system under the joint supervision of the State highway department and the U. S. Bureau of Public Roads.

The apportionment, as certified by the

Secretary of Agriculture, for the 16 Southern States for the fiscal year 1931 is as follows:

Alabama	\$1,557,372
Arkansas	1,293,086
Florida	921,558
Georgia	1,985,632
Kentucky	1,414,610
Louisiana	1,040,195
Maryland	631,911
Mississippi	1,323,897
Missouri	2,382,383
North Carolina	1,722,673
Oklahoma	1,751,015
South Carolina	1,065,105
Tennessee	1,608,802
Texas	4,545,530
Virginia	1,429,253
West Virginia	792,526

Total South .....\$25,466,148

Apportionment to other states follows:

Arizona	\$1,062,190
California	2,501,170
Colorado	1,390,524
Connecticut	477,893
Delaware	365,625
Idaho	932,594
Illinois	3,100,781
Indiana	1,909,505
Iowa	2,005,944
Kansas	2,048,585
Maine	675,106
Massachusetts	1,090,022
Michigan	2,200,177
Minnesota	2,102,986
Montana	1,552,665
Nebraska	1,586,526
Nevada	990,845
New Hampshire	365,625
New Jersey	936,234
New Mexico	1,190,296
New York	3,605,965
North Dakota	1,203,060
Ohio	2,753,528
Oregon	1,197,667
Pennsylvania	3,314,707
Rhode Island	365,625
South Dakota	1,232,962
Utah	850,752
Vermont	365,625
Washington	1,156,219
Wisconsin	1,849,169
Wyoming	942,455
Hawaii	365,625

United States, exclusive of the South .....\$47,658,652

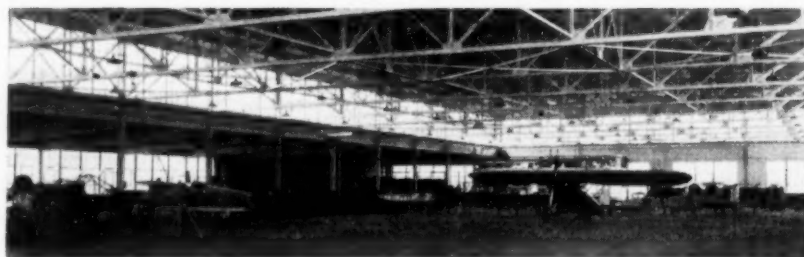
# AVIATION, AIRPORTS AND AIRWAYS

## Glider Activities in Florida

Fernandina, Fla.—The Florida Glider Association, recently organized with R. V. Nolan, local manager of the Southern States Power Company, as chairman, has affiliated itself with the National Glider Association, of which Howard S. Evans, Detroit, Mich., is president. The local organization plans a campaign to make Florida a leader in activities of gliding or motorless aviation. Florida climate and prevailing winds are particularly suitable for glider clubs, especially along the Atlantic and Gulf coasts and lake shores, while good gliding grounds may be found along the so-called ridge section of the state, it is said.

## Country Has 1509 Airports

Washington, D. C.—According to an announcement by Clarence M. Young, Assistant Secretary of Commerce for Aeronautics, 1509 airports are in operation in the United States, of which 140 are municipal, 465 commercial, 273 intermediate, 86 government and 240 auxiliary fields. California leads with a total of 161, while Texas is second with 101. Approximately 1278 more airports are proposed or under construction.



Interior of Berliner-Joyce Aircraft Plant at Baltimore, Showing a Finished Airplane

## Bids for Airplane Testing Structures at Langley Field

Langley Field, Hampton, Va.—Bids will be opened here on January 10 by the National Advisory Committee for Aeronautics for constructing a seaplane tunnel and a wind tunnel building here. The seaplane tunnel or channel, a reinforced concrete tank about 2000 feet long, 24 feet wide and 12 feet deep, will be covered by a light steel structure with corrugated steel sheathing. In the wind tunnel building, which is to be 450 feet long, 225 feet wide and 80 feet high, the air will be circulated through large rectangular ducts and through large steel plate ducts of special form. The

covering is to be of corrugated fire-resisting steel. Contract for a power plant in connection with this development will not be let at this time.

## All-American Air Meet for Miami

Miami, Fla.—The second All-American Air Meet will be held at Miami on January 13, 14 and 15, an important feature of the occasion to be the dedication of the municipally-owned airport for dirigibles. This is said to be the first airport of this character, similarly owned, erected in the United States. A hangar, 250 by 125 feet, with a height of 85 feet is under construction. The Goodyear Zeppelin Co., Akron, Ohio, will use it as the Southern base for one of its dirigibles. The air meet will be under the management of Walter W. Bruns, secretary of the Industrial Board.

## To Expand Fly It Yourself System



Within the next few months, the Saunders Fly It Yourself System, Inc., plans expansion of its airplane renting enterprise at the Fairfax Airport in Kansas City, Mo., the program to include extension of operations into the Southwest. An official of the corporation, in discussing a certain skepticism toward the new system, by which individuals may rent airplanes on a basis similar to that employed throughout the country by automobile concerns, states that while it is true any individual or concern may rent new Saunders System planes, only licensed pilots may operate them. The planes are of the Arrow sport type (Approved Type Certificate No. 115).

## Clewiston Has Airport

Clewiston, Fla.—To facilitate inspection of its vast sugar cane fields in this vicinity, the Southern Sugar Company, operating a big sugar refining plant here, has established an airport for Clewiston. Construction of a two-plane hangar has been completed and the Kreuger Air Lines, Stuart, Fla., have established a flying school, transferring a half dozen student flyers from the Stuart base to Clewiston.

## \$250,000 Airport Bonds

Brunswick, Ga.—At a joint meeting of the Glynn County Commissioners and Brunswick City Commissioners, it was practically decided to hold a joint bond election on an issue of \$250,000 for financing construction of an airport, for which plans have been prepared by F. J. Torras, engineer of this city. The site selected for the project is on the Brunswick-St. Simons highway immediately west of the Back River bridge.

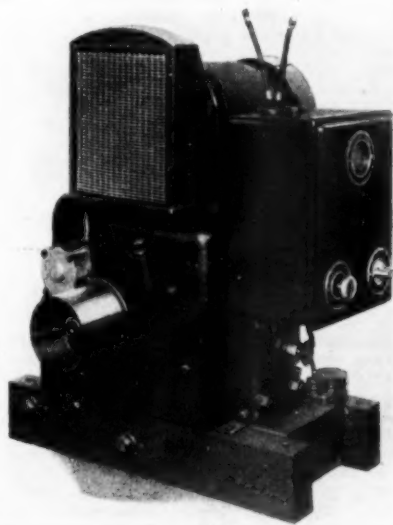


## NEW AND IMPROVED EQUIPMENT

### Small Unit Light Plant

To meet the demand from contractors for a dependable source of power to supply illumination for night work, Fairbanks, Morse & Company, Chicago, have developed a compact, self-contained light plant, described as simple in design and reliable in operation, particularly adapted to use on cranes, dredges and excavating equipment requiring continuous operation. Due to load fluctuation causing extreme speed variations, it is usually not feasible to operate a lighting generator from the main power unit, as violent voltage fluctuations are likely to occur and produce a bad flicker in the light. Thus it is desirable to provide a steady candle power for independent lighting, available also for use when the main power plant of the dredge or other equipment is not in operation.

A common use for light plants of this character is in connection with marine installations, for when the vessel is un-



Light Plant for Auxiliary Service

der way power is available for lighting purposes from the main propelling unit, but when the boat is at anchor a separate lighting plant is required.

A growing tendency on the part of isolated industrial plants, as well as in isolated building and hotel lighting plants, is to provide an economical source of power for light electrical loads during periods when the main generator is not or should not be operating. Such a unit is made in two sizes, of 750 and 1500 watts capacity, respectively; the power unit, ignition system, generator end and control mechanism being maintained as separate units. The engine is the Fairbanks-Morse self-oiling Z type with high tension magneto ignition, the

smaller 1½-horsepower unit being designed to operate on gasoline and the larger 3-horsepower unit either on gasoline or kerosene. The generator is a ball-bearing machine mounted as a unit directly above the engine, while the Flex-Mor V belt type drive is used. The plant is water cooled by means of a radiator and fan and water circulating system similar to that in automobile engines. It is available with a variety of storage battery combinations.

### Diesel-Operated Crane

The Industrial Brownhoist Corporation, Cleveland, Ohio, recently announced a Diesel-operated, 25-ton capacity locomotive crane, described by the company as the first crane of this capacity to be



Brownhoist Locomotive Crane, 25-ton Capacity

powered by a Diesel engine. The machine has been satisfactorily demonstrated before groups of engineers from a number of leading railroads, steel mills and industrial plants.

The Diesel engine on this new Industrial Brownhoist is of the six-cylinder, two cycle, solid injection type and burns any ordinary grade of fuel oil. The entire mechanism is mounted on a one-piece, cast steel rotating bed, side frames also being made of steel castings. The power take-off from the engine is fully enclosed, runs in oil and is equipped with Timken roller bearings to minimize friction and noise of operation.

Ten of these cranes, recently purchased by a large Eastern railroad, are now being placed in operation and because of low operating costs and ability to start and stop quickly they are expected to effect marked economies.

Municipal bonds in the amount of \$400,000 for an incinerator, schools and other improvements, have been voted by Corsicana, Tex.

### Special Welding Machine Developed for Laying New Type Flooring

A special electric arc welding machine has been designed by the General Electric Co., Schenectady, N. Y., for application to welding of the recently developed "battledock" type of flooring.

On the framework of the new machine, which has three wheels and is self-propelled by an adjustable-speed motor, are mounted a wire feeding device, a reel of welding wire, and the travel motor and the control devices. All of this equipment occupies a space of less than five square feet and is but two feet high. A motor generator located at a remote point supplies the current for welding and for operating the travel motor through a trailing cable. Speed of both the travel motor and the welding wire feed can be varied by regulating small rheostats, making it possible to adjust operation to the circumstances. A small steering wheel is provided to line up the vehicle, if it deviates from the seam during operation. At the end of the seam it is necessary only to turn the machine around and place it on the beginning of the next seam, proceeding in this manner until all seams are welded.

At Biloxi, Miss., where an exhibition was held at the time of the annual meeting of the American Institute of Steel Construction, the new device accomplished a satisfactory weld at a speed of 9.5 inches per minute. The new type flooring is designed to reduce materially the weight of modern skyscrapers, and it is believed that such construction will make possible the erection of even higher buildings than now deemed possible, through reducing the dead load of the structure.

### \$300,000 Power Expansion

Austin, Tex.—Construction of three sub-stations and the extension of main power and light lines will be undertaken next year by the city, at a cost of approximately \$300,000, according to City Manager Adam R. Johnson. The U. G. I. Contracting Company, Philadelphia, Pa., has contract for the improvements.

### \$325,000 to Improve Rolling Mill

The Eastern Rolling Mill Co., Baltimore, plans to expend approximately \$325,000 for revamping its plant and installing new furnaces, contract for the latter having been awarded to the Surface Combustion Co., Cleveland, Ohio.

# CONSTRUCTION DEPARTMENT and NEW ENTERPRISES

Covering the initial announcements of new undertakings with additional information about enterprises previously mentioned. The date at the end of an item indicates preliminary facts were given in a previous issue.

When writing to a new firm or corporation the name of at least one of the incorporators should be placed on the envelope to expedite its handling by the local postoffice. Mail may be delayed unless complete address is given.

Building and Construction Proposed and Contracts Awarded; Manufacturing, Mining, Power, and Land Developments; Public Works; Transportation; Communication; Financial Enterprises; New Business Opportunities Reported in the Sixteen Southern States.

The Daily Bulletin of the Manufacturers Record gives each business day advance news published in this weekly review. It is invaluable to those requiring prompt information. Subscription price \$40.00 a year.

## Airports, Airplane Plants, Etc.

Ala., Birmingham—City plans voting about Feb. 15, 1930, on approx. \$1,000,000 bonds for airport; H. A. Hawkins, City Engr. 11-14

Ark., Marianna—Chamber of Commerce, E. C. Robertson, Pres., interested in establishing airport.

Fla., Tampa—City, reported, starts constructing airport and seaplane base Mar. 1, 1930, for which \$750,000 bonds were voted; accepting proposals for sites, Dec. 6 to 16; will let contract Feb. 18, 1930. 12-5

La., Alexandria—City plans installing flood lighting system and beacon lamps at proposed airport. 11-7

Mo., Carthage—City Council leased airport site.

Mo., Joplin—Chamber of Commerce completed plans for calling special airport election to appropriate \$100,000 for purchase, improvement and equipment of municipal airport; George Schier and S. Warren, comprising airport committee, have charge of work; several sites under consideration.

Mo., St. Louis—St. Louis Glider Club, Harry Kuchins, Pres., Normandy, erect hangar, Creve Coeur Lake.

N. C., Raleigh—Chamber of Commerce approved plan for city to expend \$50,000 improving Curtiss Airport; may vote bonds.

Okl., Bartlesville—Empire Gas & Fuel Co. acquired 400-acre tract and started work on aviation field; equip with runways, extending east and west and north and south, and with hangar of steel and brick; to be complete in December.

Okl., Clinton—Clinton Air Transport Co., capital \$20,000, incorporated; H. R. Gilchrist, J. D. Simpson, P. R. Cooper.

Okl., Tulsa—City plans voting Dec. 31 on \$7,658,561 bonds, \$600,000 for airport. 10-17

Okl., Wewoka—City Commrs. let contract to Braden Steel Corp., 1007 E. Admiral Blvd., Tulsa, for airplane hangar to accommodate 7 to 9 planes; 60x80 ft., 14 ft. high; Joe Howard, City Mgr. 11-14

Tex., Dallas—Good & Foster Aero Service, Byron Good, Love Field, let contract to W. S. Crawford, 4123 Avondale Ave., for \$15,000 hangar, Love Field; conc. and steel, 65x98 ft. 11-7

Tex., Fort Worth—T. A. T. Flying School, Inc., Fort Worth Natl. Bank Bldg., changing name to S. A. T. Flying School, Inc.

Tex., McAllen—City Comm. voted to acquire 200-acre Ryan tract on International Hwy. for airport. 10-3

Va., Berryville—Lloyd Williams Post of American Legion and Chamber of Commerce interested in establishing airport.

Va., Langley Field, Hampton—National Advisory Committee for Aeronautics opens bids Jan. 10, 1930 for seaplane tunnel consisting of rein. conc. tank about 2000 ft. long, 24 ft. wide, 12 ft. deep, covered by light steel structure with corrugated steel sheathing; full scale wind tunnel about 460 ft. long, 225 ft. wide, 80 ft. high; air circulates inside large rectangular ducts and through large steel plate ducts of special

form, covering generally of corrugated fire resisting steel; no power plant being let now; H. J. E. Reid, Ch. Engr., N. A. C. A. 3-28

## Bridges, Culverts and Viaducts

### Proposed Construction

Ala., Mobile—Royce Kershaw, Burnett Bldg., Jacksonville, Fla., of Dauphin Island Bridge Co., making surveys for proposed bridge to Dauphin Island. 10-3

Fla., St. Petersburg—Tampa Bay Causeway and Transport Co., Tallahassee, requests action on application be indefinitely postponed, to construct causeway into Tampa Bay, at St. Petersburg. 11-7

Ga., Rome—Floyd County Comm., O. N. Richardson, Chmn., receives bid about Mar. 1, 1930, for 460-ft. steel bridge, conc. piers over Oostanaula River, at Second St.; plans by State Highway Dept., East Point. 11-21

Ky., Ashland—State Highway Comm., Frankfort, plans expending \$1,200,000 for bridge across Ohio River, Twelfth and Front St., connecting Ashland with Coal Grove, Ohio; 2,500 ft. long, cantilever type, main span 739 ft.; 22-ft. roadway; conc. piers; 5-ft. sidewalk; silica steel and heat treated eyebars; J. E. Greiner & Co., Const. Engrs., Lexington Bldg., Baltimore, Md., completing plans, etc. 8-16-1928

Ky., Louisville—City, Wm. B. Harrison, Mayor, plans expending, during 1930, \$1,000,000, for grade crossings.

La., New Orleans—War Dept., Washington, approved plans Louisiana Highway Comm., Baton Rouge, for bridge across Bayou Bienvenue, east of New Orleans, under State law.

Maryland—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, receives bids Dec. 23 for 2 bridges: Kent County—double leaf bascule span (60-ft. clear channel), for bridge across Chester River at Maple Ave., Chestertown; bascule piers to be built under separate contract, Cont. K-37-A; Anne Arundel County—45-ft. single span steel girder bridge on conc. piers, under tracks of Chesapeake Beach R. R., on road from Hill's Bridge to Sunderland, Fisher Station. 10-10

Md., Towson—State Roads Comm., Baltimore, received low bid from Empire Construction Co., 31 S. Calvert St., Baltimore, \$83,825, for approaches to undergrade crossing of Pennsylvania R. R. on York road, in Cockeysville; G. Clinton Uhl, Chmn. 11-28

Missouri—State Highway Comm., receives bids for 17 bridges. See Roads, Streets, Paving.

N. C., Weldon—State Highway Comm., Raleigh, requested permit from War Dept., Washington, for \$240,000 bridge across Roanoke River at Weldon.

Oklahoma—State Highway Comm., Oklahoma City, receives bids for 6 bridges. See Roads, Streets, Paving.

Okl., Tulsa—See Roads, Streets, Paving.

Tenn., Hartsville—War Dept., Washington, approved plans Dept. of Highways and Public Works, Nashville, for bridge across Cumberland River near Hartsville, in vicinity of Harts Ferry.

Tenn., Johnson City—City, W. B. Ellison, Mayor, plans expending \$200,000 for ap-

proaches to 2 viaducts. See Financial News Columns.

Tenn., Knoxville—City, George Dempster, Mgr., considering erecting Church St. and Oak St. viaducts.

Texas—State Highway Comm., Austin, receives bids Dec. 16-17 for 3 bridges: Cherokee County—900-ft. rein. conc. bridge across Neches River, Highway No. 40, cost about \$75,000; Goliad County—500-ft. steel span and conc. approach, over Manahulla River, Highway No. 119, estimated cost \$60,000; Jones County—conc. approach and 100-ft. steel span, across Clear Fork of Brazos River, Highway No. 30; Gibb Gilchrist, State Highway Engr.; G. G. Wickline, State Bridge Engr.

Tex., Dallas—Texas and Pacific Ry., E. F. Mitchell, Ch. Engr., Dallas, plans expending \$40,000 to replace railroad bridge over Mountain Creek between Dallas and Fort Smith; recently destroyed by fire.

Tex., Dallas—Texas & Pacific Ry. Co., E. F. Mitchell, Ch. Engr., Dallas, completing plans for about 2,000-ft. double track bridge across Trinity River, 10 ft. higher than present crossing; 200-ft. steel truss span over new channel.

Tex., Fort Worth—City, O. E. Carr, Mgr., may receive bids in Jan. for \$200,000 Royce St. Bridge over Clear Fork of Trinity River; link in proposed Henderson St. north and south traffic artery; C. M. Thelin, Designing Engr., preparing plans, etc.; D. L. Lewis, City Engr. 11-7

Texas-Oklahoma—State Highway Comm. of Texas, Austin, and of Oklahoma, Oklahoma City, rejected bids for 2 bridges over Red River, at Gainesville and in Montague County. 12-5

Tex., Dallas—Santa Fe Ry., F. Merritt, Ch. Engr., Galveston, begins construction soon on underpass at Chalk Hill, west of Dallas, on Fort Worth Pike.

Tex., Natalie—State Highway Comm., Austin, receives bids Dec. 17 for .321 mi. rein. conc. bridge and earth approaches on State Highway No. 2, in town of Natalie, Medina County; crushed rock base and 1-in. limestone rock asphalt surface course; H. P. Stockton, Div. Engr., San Antonio; Gibb Gilchrist, State Highway Engr.

Va., Norfolk—War Dept., Washington, approved plans City of Norfolk, Walter H. Taylor, 3rd, Dir. of Public Works, to reconstruct bridge across Lafayette River, at Granby St., under State law.

W. Va., Charleston—Kanawha County Court, R. N. Moulton, Clk., receives bids Jan. 2 for 4 bridges: No. 120—Mammoth Bridge, over Left Fork of Kellys Creek, Mammoth; 31-ft. steel I-beam superstructure, conc. floors; No. 118—Burnwell Bridge, over Paint Creek, Burnwell, two 52-ft. I-beam spans, superstructure; No. 116—Ash Camp Bridge, over Ash Camps Branch Paint Creek, near Morton, 52-ft. steel I-beam span, superstructure; No. 117—Toms Branch Bridge, over Toms Branch of Paint Creek, Whittaker, 42-ft. steel I-beam span, superstructure.

W. Va., Deepwater—War Dept., Washington, D. C., approved plans Virginian Ry. Co., A. M. Traugott, Ch. Engr., Norfolk, Va., for bridge across Kanawha River near Deepwater; awaiting authority from Interstate



Commerce Comn. or New York Central System to make expenditure; joint request now pending. 10-31

W. Va., South Charleston, Charleston—War Dept., Washington, D. C., approved plans Carbide and Carbon Chemicals Corp., 30 E. 42nd St., New York City, for bridge across Kanawha River back channel at Blaine Island, South Charleston.

#### Contracts Awarded

Ky., Louisville—Bd. of Public Works, let contract to L. B. Fugitt Co., 307 N. Michigan Ave., Chicago, \$40,367, for Southern Railway underpass on Third St. 11-28

Miss., Magnolia—Pike County Bd. of Supvrs., Charles E. Brundfield, Clk., let contracts to L. B. Felder to build one bridge on state line road and repair Alford Bridge in Fourth Dist.; to D. M. Simmons for slough bridge on state line road. 11-21

Miss., Winona—Montgomery County, Otis E. Brannon, Clk., let contract to Gulf States Lumber Co., Memphis, Tenn., for State Highway Dept. Bridge No. 212 over Big Black River at Winona; estimated cost \$30,000.

N. C., Lincolnton—State Highway Comn., Raleigh, let contract to Hobbs-Peabody Construction Co., Builders Bldg., Charlotte, \$15,000, for overpass over railroad.

Tex., Bay City—Virginia Bridge & Iron Co., Roanoke, Va., has contract for 200 tons struct. steel for bridge across Colorado River west of Bay City, Matagorda County; L. H. Lacey, Burt Bldg., has contract for construction. 12-5

Tex., Denison—State Highway Comn., Austin, let contract to Southwest L. E. Myers Construction Co., Allen Bldg., Dallas, \$230,291, for Denison, Tex.-Durant, Okla., bridge across Red River; State Highway Comn., Oklahoma, confirmed contract. 12-5

Tex., Houston—City, W. E. Monteith, Mayor, let contract to Russ Mitchell, Inc., Petroleum Bldg., \$9464, for rein. conc. culvert on Gillespie St. over Ingraham Gully.

Tex., Houston—City, W. E. Monteith, Mayor, let contract to Russ Mitchell, Inc., Petroleum Bldg., \$8063, for conc. culvert on Northwood St. near Gardner; H. L. Shaw, City Engr. 11-21

W. Va., Okeefe—Big Sandy & Cumberland R. R., W. P. Wiltsee, Ch. Engr., Roanoke, Va., let contract to Virginia Bridge & Iron Co., Roanoke, for 1200 tons fabricated struct. steel for 8 bridges; deck plate girder spans, 50 to 75 ft. long.

#### Canning and Packing Plants

Fla., Elfers—Elfers Citrus Growers Assn., W. H. Smith, Mgr., erect \$12,000 addition to packing plant.

Fla., Lake Hamilton—Lake Hamilton Citrus Growers Assn., Chas. F. Kuhn, Archt., Winter Haven, advises will not be ready for bids on packing plant until spring; Lee Anderson, Mgr., Lake Hamilton Exchange. 11-28

Fla., Pompano—Claude Radcliffe, reported, interested in establishing canning plant N. E. Sixth St.

Fla., Shiloh—Shiloh Packing Co., increasing capital to \$80,000; plans installing pre-cooling plant and additional packing plant.

Fla., St. Augustine—St. Augustine Canning Co., capital \$15,000, incorporated; H. Colee, 145 Cordour St.

Miss., Crystal Springs—Federated Fruit & Vegetable Growers and W. S. Grantham, Mgr. Cherry Groves Farms, reported, interested in construction of packing house.

Miss., Meridian—Chamber of Commerce, H. S. Howard, Sec.-Mgr., interested in having company establish vegetable canning plant; will furnish site free of state, county and city taxes for period of 5 yrs.

S. C., Camden—Joe H. Thomas, Bloomville, reported, establish canning plant.

#### Coal Mines and Coke Ovens

W. Va., Logan—West Virginia Coal & Coke Corp., Thos. A. Stroup, Ch. Engr., Omar, advises tippie proposed for No. 19 Mine will be arranged to prepare 6 grades of coal; completely of steel with conc. floors and high type construction.

#### Cotton Compresses and Gins

La., West Monroe, Monroe—Baskin Gin Co., Inc., capital \$25,000, chartered; C. W. Wallace, 400 Island Drive.

#### Drainage, Dredging and Irrigation

La., Bossier City—Bd. of Commrs. of Gravity Drainage Dist. of Parish of Bossier, Bossier State Bank, opens bids Jan. 2 for 4 open drainage ditches: Drainage Dist. No. 1—Ditch No. 1, widen present 6-in. bottom ditch to 15-ft. bottom, 3122 ft., 4111 cu. yd.; Ditch No. 4, 8-in. bottom, 11,950 ft., 8613 cu. yd.; Ditch No. 5, 6-in. bottom, 3800 ft., 1853 cu. yd.; Ditch No. 6, 4-in. bottom, 2800 ft., 4542 cu. yd.; total 19,119 cu. yd.

La., New Orleans—U. S. Engr. Office, foot of Prytanla St., has low bid of 28 cents per cu. yd., from Boone & Webster, Sellers, for excavating approx. 8000 cu. yd. drainage ditch in Second New Orleans Dist.; bid taken under advisement.

Maryland—Secretary of War approved preliminary surveys for Choptank River, to provide channel 8 ft. deep, 100 ft. wide through Pealliquer Shoals, costing \$6300, with \$900 annually for maintenance; improving Elk River, to provide channel 7 ft. deep and 40 ft. wide, with widening at bends, from near Cedar Point to Bridge St. Bridge, Elkton, costing \$12,000, with \$4000 annual maintenance; improving Wicomico River, channel to be 12 ft. deep and 100 ft. wide below Main St. Bridge, Salisbury, costing \$108,000, with \$4000 annual maintenance.

Md., Baltimore—Maj.-Gen. Lytle Brown, Ch. of Army Engrs., Washington, recommended to Congress appropriation of \$525,000 for further improvement of Baltimore harbor and channels, including widening Spring Garden channel between Ferry Bar and Hanover St. Bridge and completion of channels and turning basin between Hanover St. and Western Maryland Ry. Bridges, costing \$475,000; maintenance, including engineering, upkeep of floating plant, etc., \$50,000.

Miss., Clarksdale—Drainage Commrs. of Long Lake Drainage Dist. of Cahoma County, opens bids Dec. 18 at offices of Clinton & Co., for following improvements: 9 mi. of clean-cut and enlargement of old ditch and bayou, bottom width 16 to 24 ft., 1½ to 1 ft. side slope, approx. 181,000 cu. yd.; 20 mi. new ditch, bottom widths 4 to 19 ft., side slope 1½ to 1 ft., approx. 289,000 cu. yd.; 4 timber out falls; L. W. Mashburn, Engr., McWilliams Bldg.

Okla., Tulsa—Bird Creek Drainage Dist., Victor Cochran, Const. Engr., has plans prepared for draining 15,000 acres; being sponsored by Skiatook and Tulsa Chambers of Commerce; construct dikes, straighten channel and clean passageway; \$225,000.

S. C., Charleston—U. S. Engr. let contract to Herman Otto Loenecke, 204 E. Bay St., Jacksonville, Fla., at 48 cents for dredging 46,500 cu. yd. in Cooper River. 11-7

Tex., Edinburg—Hidalgo County Water Improvement Dist. No. 5, H. V. Watts, Sec., North Ave., Donna, votes Dec. 28 on \$90,000 bonds for irrigation work.

Tex., Mission—Hidalgo County Water & Improvement Dist. 7, J. E. Meador, let contract to Cement-Gun Co., Inc., B. C. Collier, Pres., Allentown, Pa., for "Guniting" 1,000,000 sq. ft. of ditch. (Recently incorrectly noted let to Gunite Co.) 12-5

Tex., Point Isabel—Cameron County Water Improvement Dist. No. 14, Lute P. Stover, Pres., Box No. 31, Brownsville, voted \$1,650,000 bonds for irrigation and drainage system. 11-28

#### Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Alabama—Public Service Comn., Montgomery, reported, approved consolidation of south Alabama power companies; permit provides for organization of General Water Works & Electric Co., which will absorb all holdings of River Falls Power Co., River Falls; Pea River Power Co., Troy; Andalusia Light & Power Co., Andalusia; Opp Light & Power Co., Opp; and Alabama Utilities Co.; General Water Works & Electric Co., will issue 7000 shares of no par common stock, 7000 shares of \$7 no par preferred stock and \$1,600,000, of 5½% 25 yr. series A first mortgage gold bonds; office of company, 18-20 Dover Lane, Dover, Del. 10-3

Alabama—Alabama Power Co., Birmingham, let contract to Dixie Construction Co., 600 N. 18th St., Birmingham, for extension of 44,000 volt line. 12-5

D. C., Washington—Potomac Electric Power Co., 14th and G Sts., N. W., reported, announced expansion program for 1930 aggregating \$5,900,000 exclusive of a projected \$2,500,000 addition to Benning plant; work will include improvements and extensions to electric distribution system, \$2,064,000; construction of new substation in vicinity of Columbia Rd. and Champlain St., and enlarging existing substations, \$593,000; construction of previously announced office building at Tenth and E Sts., N. W. and operating service buildings, \$2,635,000; purchase and installation of mechanical equipment of buildings and new offices, \$46,000.

Georgia—Georgia Power Co., Electric Bldg., Atlanta, and affiliated companies, Columbus Electric & Power Co., Columbus, and South Georgia Power Co., Albany, will expend \$16,000,000 for new construction in Georgia in 1930, exclusive of amount to be spent in maintenance and operation of company's electric, street railway, etc.; total of \$12,000,000 additional provided for these expenditures; largest item in 1930 budget include 2 electric generating plants, Plant Atkinson, steam electric generating plant being built on Chattahoochee River near Atlanta, scheduled for completion in 1930 and 60,000 h. p. hydro electric development now under construction at Furman Shoals on Oconee River near Milledgeville. 10-24

Louisiana—Louisiana Power and Light Co., 2 Rector St., New York, reported, extend super-power line to the New Orleans in with electric system serving states of Louisiana, Mississippi and Arkansas; rights of way obtained; work begun on 110,000 volt line from Roseland in Tangipahoa Parish to New Orleans; cost \$1,000,000.

Md., Baltimore—Consolidated Gas, Electric Light & Power Co., Lexington Bldg., \$7,500,000 1930 budget provides for principal expenditures as follows: Gas Distributing System, mains, services, meters, etc., \$1,000,000, and a major extension will be a high pressure line to serve Reisterstown and Glyndon connecting with the line at Pikesville; Electric Distribution System, cables, meters, wires, transformers, etc., \$2,500,000, and about \$1,000,000 will be expended for additional equipment for power stations, sub-stations, etc.; District Steam Heating System, \$500,000 appropriated for extending and reinforcing system; Transportation, about \$400,000 will be expended for replacing rolling stock, etc. 11-28

Miss., Jackson—Mississippi Power & Light Co. expend \$4,000,000 during 1930 for extension of natural gas lines in state and for gas distribution system and electric transmission systems.

Mo., Bagnell—Union Electric Light & Power Co., 12th and Locust Sts., St. Louis, reported, plans completion of Bagnell dam project in 1931 and will then begin construction of turbine section to add 100,000 h. p. to Cahokia plant near St. Louis; North American Co., 60 Broadway, New York, controlling company, plans expenditure in 1930 of \$100,000,000. 11-28

North Carolina—Duke Power Co., Charlotte, reported, expend \$15,000,000 in Piedmont section of North and South Carolina, tentative upon extension of Piedmont & Northern Railway Co., Charlotte, from Spartanburg across to Winston-Salem; town of Harmony, N. C., has voted franchise to company, line now under construction from Statesville to that city; lines also being extended into Hodges and Cokesbury, S. C.; Mooresboro, Cleveland County, Ellenboro and Lattimore voted to sell electric distribution system to Southern Public Utilities Co., line being extended into Ruffin.

Okla., Oklahoma City—Byllesby Engineering & Management Corp., 231 S. LaSalle St., Chicago, Ill., advises construction work started on Belle Island Station for Oklahoma Gas & Electric Co.; all materials and equipment being purchased through purchasing department of Byllesby Engineering & Management Corp., and all construction work handled by its construction forces. 10-31

Okla., Tulsa—City, Frank O. Brown, Commr. Streets and Public Property, plans extending white way system; specifications being prepared.

Okla., Wagoner—City voted against sale of light plant.

Tennessee—Tennessee Eastern Electric Co., Johnson City, plans expenditure of \$100,000 in extensions and improvements in 1930.

Texas—Samuel Insull & Son, 72 W. Adams St., Chicago, Ill., reported, entered into contract with Ford, Bacon & Davis, Inc., 39 Broadway, N. Y., to purchase not less than 90,000 shares of common stock and all of preferred shares of Pecos Valley Power & Light Co. of Texas, New York office, 39 Broadway.

Texas—Central Power & Light Co., Frost Natl. Bank Bldg., San Antonio, let contract to Southwest L. E. Myers Co., American Exchange Bk. Bldg., Dallas, for constructing high power transmission line from Marfa to Fort Davis; work to begin soon. 11-28

Texas—West Texas Utilities Co., Abilene, offering \$8,250,000 first mortgage 5% gold bonds, Series A, through Halsey, Stuart & Co., Inc., 35 Wall St., N. Y.; plans expenditure of \$5,000,000 in Texas in 1930. 11-28

Texas, Austin—City, Adam R. Johnson, Mgr., reported, expend \$300,000 for improved electric power distribution for outlying sections of city; U. G. I. Contracting Co., 112 N. Broadway, Philadelphia, Pa., has contract for contemplated improvements under cost plus 10% basis. 10-17

Texas, Goose Creek—City, J. W. Powell, Mayor, plans installing light plant.

Texas, Houston—Houston Lighting & Power Co., advises Deepwater extension being designed and constructed by Phoenix Utility Co., 2 Rector St., N. Y.; all major equipment ordered and construction now under way.

Texas, Paris—City, reported, declined to submit to voters proposal to install power plant; J. Moran Crook, Mayor. 11-28

Virginia—Virginia Public Service Co., Charlottesville, controlled by Seaboard Public Service Co., Charlottesville, reported, making survey for power line to link Harper's Ferry Electric Light & Power Co., Harper's Ferry, W. Va., with lines of Leesburg Electric Co., Leesburg, Va., will provide line from Alexandria to Harper's Ferry; also plan line from Leesburg to Oatlands. 11-14

Virginia—Virginia Public Service Co., Charlottesville, advises existing dam at Bland's Ford will be strengthened and raised to give 30 ft. head; installed capacity of generators 815 kw. in 2 units; brick building; construction contract let to L. E. Myers Construction Co., Inc., 84 Williams St., N. Y.; Charles B. Hawley Co., Const. Engrs., Munsey Bldg., Washington, D. C. 11-14

Va., Shenandoah—Shenandoah River Power Co., Harrisonburg, L. E. Long, Gen. Supt., plans beginning about Mar. 1930, work on power house and dam to impound 75,000,000 cu. ft. of water; plant to be located about 2 miles from Harrisonburg; reservoir will cover 190 acres; two units of 1000 kw. each; dam will be 500 ft. long, located on bed rock, next to gravity spillway will be 4 tainter gates, 30 ft. wide and 16 ft. high. 7-25

W. Va., Harpers Ferry—Harpers Ferry Electric & Power Co. (recently acquired by holding company owned by Samuel Insull & Son, Inc., 72 W. Adams St., Chicago, Ill.) contemplate expenditure of \$250,000. 9-5

### Flour, Feed and Meal Mills

Tenn., Cleveland—Theodore Stivers plans rebuilding burned flour mill.

### Foundry and Machine Plants

Ala., North Birmingham (Sta. Birmingham)—Lamson & Sessions Co., 1971 W 85th St., Cleveland, Ohio, recently acquired Lake Erie Bolt & Nut Co., 915 E. 63rd St., Cleveland, Ohio, which in turn takes in American Bolt Co., Inc., 3830 10th Ave. N., East Birmingham, Ala.; no definite plans made to consolidate plant with new plant; Lamson & Sessions will add additional 24,000 sq. ft. to plant now under construction, giving total of 64,000 sq. ft.; Geo. S. Rider Co., Engr., Century Bldg., Cleveland, Ohio. 12-5

La., Shreveport—Beard Corp., reported, expend \$250,000 to \$300,000 for improvements to welding plant.

Okla., Bartlesville—Wells Valve & Equipment Co., capital \$25,000, incorporated; manufacture oil field equipment; M. G. Blair.

Texas, Dallas—State Highway Dept., Austin, plans erecting 1-story mechanical and repair shop for road machinery work, and 1-story equipment storage and distribution plant; \$50,000 with equipment.

Texas, Houston—G. A. Humason, V.-Pres. and Mgr., Humason, Logue & Humason Co., Petroleum Bldg., soon start erecting plant to manufacture blow-out preventer and well tester, recently invented; materials for manufacture to be obtained from local foundries; employ about 50.

### Garages and Filling Stations

Ala., Anniston—Anniston Scrap Material Co., Inc., A. E. Buckner, Mgr., 10th St., advises plans for filling station held up indefinitely. 11-28

Ala., Wetumpka—G. B. Smith receiving bids for \$25,000 garage; 1 story and part basement, conc. footings, brick, tile, struc. steel, built-up roof, plate glass fronts; Warren, Knight & Davis, Archt., Protective Life Bldg., Birmingham.

Ark., Jonesboro—Court Square Service Station, H. H. McAdams, plans remodeling service station.

Fla., Coral Gables, Miami—Seaboard Oil Co., 5600 N. E. 4th Ave., Jacksonville, reported, let contract to Upton Bros. Construction Co., 814 Ave. Santiago, Coral Gables, for service stations, Eighth St. and Eighth Ave., and Miami and Ponce De Leon Blvd.; Paist & Stewart, Archt., Art Centre Bldg.

Fla., Jacksonville—Shell Eastern Petroleum Products, Inc., Lynch Bldg., plans \$12,000 filling station, St. Johns Ave. and Oak St.; \$8000 station, San Marco Blvd. and Riviera St.; both of super-station type and English design, surrounded with large conc. runways.

Fla., Miami Beach—Collins Ave. and 12th St. Corp., care John B. Reid Co., Fifth St. and Collins Ave., let contract to A. N. Higgins, Fifth St. and Meridian Ave., for \$40,000 garage and servants' quarters, 12th St. and Collins Ave.; 88x140 ft., conc. floor, tile joint system, 4-ply, built-up roof, wood sash; A. Fraser Rose, Archt.-Engr., 537 Collins Ave.

Ky., Horse Cave—Horse Cave Motor Co., capital \$15,000, incorporated; H. T. Jones, C. B. Henry.

La., New Orleans—Shell Petroleum Corp., Canal Bank Bldg., subsidiary Shell Eastern Petroleum Products Corp., 141 Milk St., Boston, Mass., receives bids until about Dec. 20 for oil station, Carrollton Ave. and Palm St.

La., New Orleans—A. S. Montz, Archt., City Hall Bldg., completing plans for \$17,000 city garage, Loyola Ave. between Julia and Girod St.; 92x109 ft., stone tile and stucco, rein. conc. foundation, steel arch roof, covered with galv. iron, conc. floors, steel sash, pump equipment, etc.; alternate bids to be received on different types of roofing; receiving bids.

Md., Annapolis—Anne Arundel County expend \$300,000 for construction in 1930, \$15,000 for county garage and repair shop for general house and maintenance of road trucks and other machinery.

Md., Baltimore—Lincoln Motor Service, Inc., 33 E. North Ave., changed name to Independent Service, Inc.

Md., Cumberland—Automobile Salvage Corp., 215 S. Mechanic St., incorporated; W. Harry Buchholtz, Howard W. Glisan.

Md., Hagerstown—Caldwell Motor Cars, 53 W. Franklin St., incorporated; Charles W. Hoffman.

Miss., Gulfport—Switzer & Eccles, Inc., capital \$20,000, chartered; C. R. Switzer, M. C. Eccles; trade in tractors, engines, autos, etc.

Mo., Kansas City—Jewell Development Co., W. R. Jewell, Pres., 622 Chambers Bldg., drawing plans for garage and store, 31st and Tracy St.; 2 story, brick; P. T. Drotts, Archt., 423 Reliance Bldg.

Mo., St. Louis—Albert Realty & Construction Co., Sam Brown, 7533 Parkdale St., erect \$12,000 garage, 6651 Berthold St., by subcontract; 1 story, 47x158 ft., conc. foundation and roof; Ben Shapiro, Archt., Synd. Trust Bldg.

N. C., Greensboro—McDonald Service Stores, Inc., chartered, receiving bids no closing date set, for \$30,000 service station; remove present structure; stucco on brick, conc. floors, tile roof, 1 story and basement, 120x100 ft., steel sash, metal lath; M. R. Marsh, Archt., Bldrs. Bldg., Charlotte.

N. C., High Point—McDonald Service Co., 614 S. Tryon St., Charlotte, erect \$15,000 service station; M. R. Marsh, Archt., Builders Bldg., Charlotte.

N. C., Kinston—Lenoir Tire Co., capital \$25,000, incorporated; E. S. Russell, Ray Barbee.

Tenn., Chattanooga—Miller & Stevens Auto Parts Co., capital \$10,000, incorporated; P. J. Miller, 1818 Newton St.

Tenn., Nashville—Firestone Tire & Rubber Co., Akron, Ohio, R. W. Woy, Branch Mgr., start work by Jan. 1 on \$200,000 1-stop service store, Elliston Pl. and West End Ave. at 25th Ave., contracts to be let by Dec. 15; local company to be known as Firestone Service Stores, Inc.; Marr & Holman, Archts., Stahlman Bldg.

Texas, Alice—Clarence Holmgreen has low bid from L. B. Mitchell, at \$22,450, for garage; 75x100 ft.

Texas, Beaumont—Humble Oil & Refining Co., Humble Bldg.; Houston, erect \$10,000

filling stations, Railroad Ave. and College St., and Railroad and Park St.

Texas, Beaumont—Magnolia Petroleum Co., S. Beaumont, acquired site, Franklin and Orange St. for filling station; raise present 2-story building.

Texas, Beaumont—Shell Petroleum Co., subsidiary of Shell Eastern Petroleum Products Corp., 141 Milk St., Boston, Mass., erect \$12,000 distributing station on Missouri Pacific right of way. 10-17

Texas, Harlingen—Rio Grande Motor Co., capital \$10,000, incorporated; P. H. Lee, M. D. Browder.

Texas, Houston—H. B. Tension, 427 Lovett Blvd., having plans drawn for \$30,000 filling station and store, Franklin Ave. and Hamilton St.; 50x100 ft., 2 story, modern type; Joseph Finger, Archt.

Texas, Houston—R. R. Kropp, 5501 Brady St., let contract to Sam D. Cook, Kress Bldg., for remodeling building, Austin and Rusk St.; Kelly Bros., Inc., Lessee, automobile top and body repairer.

Texas, Richland Springs—Richland Springs Motor Co., capital \$10,000, incorporated; J. B. Coffey, W. G. Locker.

Texas, Taylor—Henry P. Pfel let contract to John Marcon, Waco, for \$15,000 superstation, Talbot and Fourth St.; brick, equipped with electricity, 8 pumps, car washer and polishing machines.

Texas, Taylor—J. A. Thompson Lumber Co., erecting filling station, W. Second St.; brick, modern; Gulf Refining Co., Port Arthur, Lessee.

Va., Lynchburg—Virginia Body & Fender Co., Inc., capital \$10,000, chartered; C. H. Almond, Jr., Peoples Natl. Bank Bldg.

### Gas and Oil Enterprises

Alabama—Alabama Natural Gas Corp., controlled by Tri-Utilities Corp., 44 Wall St., New York, plans immediate expansion of natural gas distribution system in Alabama, serving Asheville, Gordo, Heflin, Helena, Lincoln, Pell City, etc.; granted franchises in number of towns; applied to Alabama Public Service Comm. for permission to expand. 10-17

Arkansas—Arkansas Natural Gas Corp., Ardis Bldg., Shreveport, La., expend \$6,000,000 for improvements in 1930.

Ark., Marianna—Cherokee Public Service Co., Muskogee, Okla., reported, begin construction in Jan. on natural gas distribution system. 8-22

Ark., Newport—Arkansas Power & Light Co., Pine Bluff, installing natural gas distributing system; cost \$40,000; materials purchased; work by company's forces. 12-5

Fla., Miami—Shell Petroleum Corp., care of Shell Eastern Petroleum Products Corp., 141 Milk St., Boston, Mass., reported, construct bulk station, N. W. 29th Ave. and 24th St.; cost \$20,000; 5 vertical storage tanks, conc. base, dike walls around same, 28x40 ft., 1 story, steel and galv. iron warehouse and 28x50 ft. steel and galv. iron garage; will enclose with field fence; owner builds.

Fla., Miami—B. O. H. T. Oil, Inc., chartered; E. D. Noe, 152 N. E. 44th St.

Louisiana—Carbon Black Export Assn., Inc., formed under laws of Delaware to promote interests of American manufacturers of this commodity in foreign markets; incorporates estimate exports in 1929 to exceed 100,000,000 lbs.; companies represented are: Columbian Carbon Co., 45 E. 42nd St., New York; Coltex Corp., New York; Texas-Louisiana Carbon Black Co., all represented in transaction by Binney & Smith Co., 41 E. 42nd St., New York; United Carbon Co., Union Trust Bldg., Charleston, W. Va., including its subsidiaries Kosmos Carbon Co., Eastern Carbon Black Co., and Crystal Carbon Co.; Godfrey L. Cabot, Inc., 294 Washington St., Boston, Mass., including Texas Gulf Carbon Co., Cabot Co., Cabot Carbon Co. and Gas Products Co.; J. M. Huber, Inc., 460 W. 38th St., New York, including J. M. Huber Co. of Louisiana, Inc., Ebony Carbon Co., Weston Carbon Co., and J. M. Huber Pigment Co.; associated carbon black interests of Palmer Corp., City Bank Bldg., Shreveport, La.; and Electric Bond & Share Co., 2 Rector St., New York, represented by Palmer Gas Products Corp.; and Texas Carbon Industries, Inc., Breckenridge, Texas, represented by R. W. Groff & Co.; officers are Norman Lee Smith, of Binney & Smith Co., president of new association.

La., Eunice—Louisiana Oil Refining Corp., reported, let contract to E. B. Miller and E. G. Gibson, Mooringsport Rd., all Shreveport, for \$15,000 bulk plant, including 5 tanks, 36x40 ft., warehouse, office and tire room; L. E. Wade, Local Mgr.



La., Lake Charles—Star Petroleum Corp., capital \$35,000, incorporated; W. R. Conklin, Jennings; J. H. Thatcher, Houma.

La., Shreveport—H. M. Jones Drilling Co., Inc., chartered; H. M. Jones, 378 Albany Ave.

La., Shreveport—Mt. Vernon Oil & Gas Co., Inc., capital \$20,000, chartered; Jacob Laskin, 4 S. Fourth Ave., Mt. Vernon, N. Y.

La., Vinton—Strange Oil Co., Inc., capital \$20,000, incorporated; J. E. Ratliff, J. N. Wetherill.

Md., Baltimore—See Electric Light and Power.

Miss., Jackson—See Electric Light and Power.

N. C., Charlotte—Shell Petroleum Corp., care of Shell Eastern Petroleum Products Corp., 141 Milk St., Boston, Mass., reported, negotiating for Mecklenburg Oil Co.'s properties on Calvert St.; plans improvements.

Oklahoma—United Gas Co., Neils Esperson Bldg., Houston, Tex., reported, acquired 51% common stock of Consolidated Gas Utilities Co., First Natl. Bank Bldg., Oklahoma City; serving 51 towns and cities in Oklahoma and Kansas.

Okla., Bartlesville—Empire Pipe Line Co., reported, remodeling natural gasoline plant at Arkansas City; replace equipment; enlarging capacity of plant to 10,000 gal. daily.

Okla., Duncan—Har-Bar Oil Co., capital \$25,000, incorporated; Harry Duncan, Barney Cockburn.

Okla., Okmulgee—Ruler Oil Co., capital \$20,000, incorporated; Merle G. Smith, Guthrie; M. M. Smith, Okmulgee.

Okla., Tulsa—Mica Oil & Gas Co., capital \$25,000, incorporated; Ray S. Fellows, Kennedy Bldg.

Okla., Tulsa—Standard Oil Co. of New York, 26 Broadway, New York, reported, acquired White Eagle Oil and Refining Co.

S. C., Spartanburg—Standard Oil Co. of New Jersey, 26 Broadway, N. Y., district office Montgomery Bldg., reported, plans rebuilding entire plant; expend \$70,000; work includes warehouse and office building, 60x100 ft.; steel and conc.; fireproof; fireproof metal garage, tanks, pump house, loading platform, etc.; install modern equipment; enclose with cyclone fence.

Tenn., Memphis—Finley-Turner Oil Co., capital \$25,000, incorporated; Bank of Commerce Bldg., Robt. W. Hall.

Tenn., Fayetteville—Fayetteville Natural Gas Co., capital \$25,000, incorporated; J. W. Young.

Tex., Corpus Christi—Central Power & Light Co., Frost Bldg., San Antonio, reported, lay natural gas line from city gas gate on Leopard St., to district plant of company on Chaparral St.; cost \$18,000.

Tex., Corpus Christi—Brown & Root, reported, have contract for 8-in. standard weight steel pipe line from city's gate on Leopold St. to Saxet field; cost \$45,000.

Tex., Fort Worth—Rio Frio Oil Corp., capital \$15,000, incorporated; George L. Gause, 314 W. Weatherford St.

Tex., Houston—Tidal Oil Co., C. H. Bickell, 11 Broadway, N. Y., advises contemplated work in Texas, near Houston, has been indefinitely postponed.

Tex., Lampasas—Consumers Gas & Power Co., Brady, contemplating extension of line from Brady to Rochelle, Richland Springs, San Saba, Lometa and Lampasas.

Virginia—Columbia Gas & Electric Co., 61 Broadway, N. Y., reported, plans constructing natural gas pipe line extension in Virginia; move natural gas from West Virginia fields to Eastern Seaboard; applying for franchises in various Virginia towns; lay pipes from Kentucky to Richmond and Norfolk with branches serving many points along main route traversed by system; cost \$40,000,000.

W. Va., Clark, Mail Northfork—Town Council granted gas franchise to Dr. L. H. Clark, Kyle.

W. Va., Salem—Hope Natural Gas Co., Empire Bldg., reported, acquired holdings of Godfrey L. Cabot, Inc., Boston, Mass., at Salem and vicinity, including gas franchise, Salem Gasoline Co.'s plant, 65 producing wells, etc.

W. Va., Welch—Amere Gas Utilities Co., reported, granted gas franchise; will extend pipe line from company's wells in Wyoming County.

### Ice and Cold-Storage Plants

Fla., West Palm Beach—East Coast Refrigerating Co., negotiating to lease site at Port of Palm Beach for modern cold-storage and refrigerating plant; 50-car capacity, with provisions for increase; \$90,000.

Md., Baltimore—Sellmayer Packing Co., J. Baier, Engr., 531 S. Conklin St., has plans drawn for \$20,000 cold-storage building, 3700-16 Fleet St.; 3 story, brick, conc., steel, 60x200 ft.; contract not to be let through competitive bidding.

Mo., Warrensburg—Roseland Farms Mfg. Co., erect ice storage building by day work; conc. floors, asphalt roof, conc. construction; refrigeration machinery purchased; Chas. A. Smith, Archt., Finance Bldg., Kansas City. See Want Section—Building Material and Equipment.

Tex., Harlingen—Central Power & Light Co., Frost Natl. Bank Bldg., San Antonio, opens bids Dec. 23 for cold-storage plant; 3 story and basement, rein. conc., brick, tile, cast stone; plumbing, sewers, gas piping, elec. work, elevator and cement drive included in general contract; John M. Marriott, Archt., Frost Natl. Bank Bldg., San Antonio.

### Iron and Steel Plants

Md., Baltimore—Eastern Rolling Mill Co., Rolling Mill Ave., authorized \$325,000 revamping program; let contract to Surface Combustion Co., Toledo, Ohio, for new furnaces, costing \$125,000 to \$150,000.

### Land Development

Fla., Dania—Dania-Hollywood Farms Co., incorporated; E. C. Edge, L. O. Hansen.

Fla., Lake Alfred—Camp Lake Groves Co., incorporated; J. H. Evans, J. J. Sexton.

Fla., Miami—J. Mike Byrne Co. incorporated; J. M. Byrne, 37 N. E. First Ave.

Fla., Miami—M. L. Merston Properties, Inc., chartered; C. D. Bosley, Biscayne Bldg.

Fla., Miami—Libros Realty Corp. incorporated; H. I. Lipnitz, Lawyers Bldg.

Fla., West Palm Beach—Palm Beach Ranch, Inc., chartered; J. L. Owen, 709 Sunset Rd.

Ga., Macon—See Sewer Construction.

La., Baton Rouge—Basler Realty Co., Inc., chartered; Wm. J. Basler, 1081 Boyd Ave.

La., Baton Rouge—Louisiana Pecan Orchards, Inc., capital \$400,000, incorporated; J. T. McKinnon, Whitesville; James A. Plotner, Wallace Bldg., Little Rock, Ark.

La., Lake Charles—Royal Land Co., Inc., capital \$50,000, chartered; Robt. R. Stone, Miller Bldg.

La., Monroe—Cummins, Inc., Ouachita Bk. Bldg., Monroe, and Burton Mank, Coral Gables, Fla., reported, develop Spanish style subdivision; construct boulevards, sidewalks, streets; playgrounds, swimming pool, etc.

La., New Orleans—Harding Realty Co., Inc., incorporated; D. H. Theard, 7831 Nelson St.

La., New Orleans—Louisiana Development Co., Inc., chartered; Henry G. McCall, 6023 Prytanla St.

Md., Baltimore—Barry Co., incorporated; J. Britain Winter, 2 E. Lexington St.

Md., Baltimore—City, Winfield F. Courts, Park Engr., develop 18 hole golf course on 45 acres, Hillen Rd. near city line; convert present building into clubhouse.

Md., Baltimore—Klein Realty Corp., Inc., 1711 Eastern Ave., chartered; Davis M. and Morris Klein.

Md., Bethesda—Montgomery Hills, Inc., chartered; James A. Willey, George W. Triplet, Jr., both of Washington, D. C.

Md., Cumberland—National Real Estate Development Corp., Inc., 133 N. Mechanic St., incorporated; Charles Longerbeam.

Md., Rockville—Montgomery County Commrs. expend \$500,000 in 1930 for park projects and recreational centers.

Mo., Springfield—Osage Development Co., incorporated; Fred W. Johnson, West Drive, Phelps Grove.

Miss., Gulfport—Highway Realty Co., \$30,000, incorporated; Meyer Eiseman, Union Indemnity Bldg., New Orleans, La.

Mo., Joplin—Edwill Beach Corp., capital \$24,000, incorporated; H. P. Gott, Winfield, Kansas.

Mo., St. Louis—Eight North Eighth Realty Co., incorporated; P. A. Koch, 6416 Oakland St.

Mo., St. Louis—Pine Ford Farms, Inc., chartered; James C. Dawson, Webster Groves; W. G. Krugshauser, St. Louis.

N. C., Charlotte—Park and Recreation Comsn., Walter J. Cartier, Supt., develop Bryant Park on W. Morehead St.

N. C., Charlotte—Rodwell, Inc., capital \$100,000, incorporated; P. C. Rodwell.

Okla., Tulsa—Conaway Golf Course, Inc., capital \$40,000, incorporated; Loren Conaway, Jr.

Okla., Tulsa—See Sewer Construction.

Tenn., Nashville—Sumner County Land Co., J. M. Branham, 400 Union St., develop 15,000 acres for thoroughbred stock farm; improve farm buildings.

Texas—L. Rust, Del Rio, reported, acquired 26,000 acre ranch in Zapata County.

Tex., El Paso—See Water Works.

Va., Clarendon—Glen E. Eakin, Inc., capital \$50,000, incorporated; Glen E. Eakin, 3016 Tilden St., N. W., Washington, D. C.

Va., Norfolk—N. C. Realty Corp., capital \$25,000, incorporated; T. A. Bond, 115 Bank St.

Va., Portsmouth—Hodges Ferry Land & Improvement Co., incorporated; Charles R. Lively, Waterview.

W. Va., Parkersburg—Quiet Hills Land Co., capital \$40,000, incorporated; C. M. Scarberry, Gallipolis, O.; Boyd P. Duty, Westerville, O.

### Lumber Enterprises

Ark., Monticello—Arkansas City Timber Co., incorporated; Edward V. French, Thomas J. McHugh.

Fla., Wakulla—Singletary Investment Co., Exch. Bank Bldg., Tallahassee, acquired 28,000 acres, 70,000,000 ft. long leaf pine timber, and controls 21,000 acres in Calhoun County, 9000 acres in Jackson County and 8000 acres in Liberty County; will contract with firm furnishing own equipment for several years cutting; portable sawmills to cut lumber, and supplement planing mill to be operated by owner.

Ga., Valdosta—J. N. Bray & Co., lumber manufacturer and turpentine operators, acquired sawmill and timber rights on 6000 acres, Echols County, 14 mi. from here; material to be brought to plant here.

La., Jena—Frost Lumber Industries, Inc., E. A. Frost, Commercial Bank Bldg., Shreveport, acquired Trout Creek Lumber Co., including 125,000 acres, La Salle and Catahoula Parishes.

Miss., Laurel—E. L. Bruce & Co., Robert G. Bruce, Pres., Thomas St., Memphis, Tenn., acquired Marathon Lumber Co., and hardwood timber holdings; converting plant from yellow pine mill to handle hardwood.

Mo., Concordia—Duensing Lumber Co., capital \$15,000, incorporated; Edward D. Duensing, Concordia; Albert J. Duensing, St. Louis.

South Carolina—L. H. Carter, Coosawhat-chie, acquired timber tract on Palmetto Bluff.

### Mining

Fla., Bartow—Southern Phosphate Co., subsidiary of Davison Chemical Co., Garrett Bldg., Baltimore, Md., erecting rock drying plant; Nashville Bridge Co., foot of Shelby Ave., Nashville, Tenn., has contract for struc. steel.

N. C., Fontana—Swain County Mining Co., S. G. Bernard and R. R. Williams, recently incorporated, reported, expend \$2,500,000 developing mining operations.

6-27

### Miscellaneous Construction

Arkansas—H. N. Pharr, Ch. Engr., Levee Dist., Memphis, Tenn., proposed to Mississippi River Comm. creation of 400,000-acre storage basin at lower end of St. Francis River in Arkansas and diversion of St. Francis into White River through fuse plug; basin to be formed by erecting levees along St. Francis and tributaries and would affect land between Marked Tree and Marianna, Ark.; fuse plug 1/2 mi. wide would divert St. Francis through Crowley's Ridge at Marianna into White River; protect 200-mi. of levee on Arkansas side of Mississippi.

Fla., Jacksonville—U. S. Engr. Office opens bids Dec. 26 for paving with riprap easterly end of Wards Bank Training Wall, St. Johns River.

Fla., St. Petersburg—Application of Tampa Bay Causeway & Transport Co., to Railroad Comm., Tallahassee, for permission to operate ferry over Tampa Bay indefinitely postponed at request of applicant; application of Bee

Llne Ferry, Inc., Point Pinellas, heard on Nov. 29 and taken under advisement by Railroad Comm. 11-14

Ga., Macon—Mayor G. Glen Toole advocated \$2,000,000 bond issue, \$150,000 for incinerator and garbage collection equipment.

Ky., Hickman—Illinois Central System, A. F. Blaess, Ch. Engr., Chicago, Ill., authorized by War Dept., Washington, to construct flood gate in Reelfoot Levee.

Louisiana—Bd. of State Engrs., New Orleans Court Bldg., New Orleans, opens bids Jan. 2 for 73,000 cu. yd. levee, State line to Old River. See Want Section—Bids Asked.

La., New Orleans—Louisiana Highway Comm., Baton Rouge, authorized by War Dept., Washington, to construct lock in Bayou St. John.

La., New Orleans—Bd. of Levee Commrs., Orleans Levee Dist., New Court Bldg., opens bids Jan. 7, 1930, for constructing conc. seawall on shore of Lake Pontchartrain, from West End to Industrial Canal; W. B. Davey, Acting Ch. Engr.; E. C. Hyatt, Engr. in charge of work. 11-21

La., New Orleans—Bd. of Levee Commrs., Orleans Levee Dist., New Court Bldg., opens bids Jan. 14, 1930, for constructing locks in New Basin Canal south of R. E. Lee Blvd. and in Bayou St. John, south of Hibernia Ave.; W. B. Davey, Acting Ch. Engr. 11-28

La., New Orleans—Bd. of State Engrs., New Orleans Court Bldg., opens bids Dec. 16 for either 2 permeable 3-row pile training dikes, and 5 standard current retards, or 2 permeable 3-row pile training dykes and 5 short permeable 3-row pile deflection spurs in Bossier Parish, left bank Red River, Sunflower-Nicholson Bend; 2 training dykes approx. 2300 lin. ft. total lengths standard current retards, or 5 short permeable 3-row pile deflection spurs 700 lin ft.

La., Rayville—Bd. of Commrs. of Tensas Basin Levee Dist., passed resolution authorizing J. W. Summerlin, Pres. of Bd., with consent and under direction of Bd. of State Engrs., New Court Bldg., New Orleans, to advertise and let contracts for repair and enlargement of levee at Boston lane, or crossing estimated at about 12,000 cu. yd., and for repair and enlargement work on Fulton Lake Levee below Arkansas City, estimated at 31,000 cu. yd.

Miss., Vicksburg—United Daughters of Confederacy, Mrs. William Henry H. Johnson, Chrmn., Memorial Committee, Charleston, S. C., plans erecting memorial to Confederate dead at a National Military Park.

Mo., St. Louis—Inland Waterways Corp., Munitions Bldg., Washington, D. C., let contract to C. B. McCormack & Sons, Columbia Bldg., at \$66,867, for freight station and office, N. Market St. Dock; Kiewit & Schriemann, Engr., Bank of Commerce Bldg. 11-28

Tenn., Knoxville—City Council authorized pedestrian tunnel to be dug under new Henley St. at Western Ave. 11-21

### Miscellaneous Enterprises

Ark., Camden—George & Sherrard Paper Co., subsidiary International Paper Co., 100 E. 42nd St., New York, started installing machinery and equipment at plant, Cullendale, with T. A. McCord in charge; manufacture cement bags, starting operations early in 1930 and employ 50 to 75.

Ark., Fort Smith—Fire Fighting—City defeated \$100,000 bonds for fire fighting equipment. 10-24

Ark., Hot Springs—Southern Newspapers, Inc., C. E. Palmer, Pres., Texarkana, formed to publish Sentinel-Record, and New Era, afternoon paper, acquired Hot Springs Sentinel-Record, morning newspaper.

Ark., Little Rock—Fire Fighting—City let contract to American LaFrance Co., Elmira, N. Y., for 5 750-gal. pumpers, 1000-gal. pumper, 2 service ladder trucks and aerial ladder truck at \$86,200.

Fla., Bradenton—Manatee Celery Corp., capital \$20,000, incorporated; F. Emory Sharp, C. F. Parvin; plans erecting \$29,600 plant for pre-cooling and washing celery.

Fla., Jacksonville—Foremost Dairy Products, Inc., C. M. Conway, V.-Pres., Jacksonville, recently merged with Southwest Dairy Products Co., Santa Fe Bldg., Dallas, Tex., reported, expend \$30,000,000; \$6,000,000 for co-operative work; \$10,000,000 for acquisition of new properties in territory not now covered; expend \$5,000,000 in Texas; Louisiana, \$2,000,000; Alabama, \$2,000,000; Mississippi, \$500,000; Georgia, \$2,000,000; Florida, \$1,000,000; South Carolina, \$50,000; North Carolina, \$1,500,000. 10-24

Fla., Lake Worth—Ant-I-Ant Insecticide Corp., capital \$10,000, incorporated; E. A. Burtis, G. N. Seegitz.

Fla., Miami—Hughes Tobacco Co., Wheeling, W. Va., investigating possibilities of establishing cigarette plant.

Fla., Oakhurst—Oakhurst Poultry Farm, Inc., chartered; J. E. Middleton, G. T. Davis.

Fla., St. Petersburg—See Miscellaneous Construction.

Ga., Atlanta—Kraft-Phenix Cheese Corp., J. H. Kraft, Pres., 400 Rush St., Chicago, Ill., erect \$125,000 cheese and mayonnaise plant; 40,000 to 50,000 sq. ft. floor space, employ 100.

Ga., Savannah—Antwerp Naval Stores Corp., capital \$850,000, incorporated; Walter E. Coney, Gordonston St., Savannah.

Ga., Vidalia—Vidalia Coca Cola Bottling Co., care H. F. Thaxton, McRae, receives bids in few days for \$50,000 bottling plant; 1 story and basement, rein. conc., brick steel sash, built-up roof; following estimating on general contract: Chess W. Jones Co., Grand Bldg.; W. A. Stillwell & Son, 198 Ingleside Ave., both Macon; John T. Ragan; J. F. Darby; M. H. Fountain, all Vidalia; C. O. Smith Co., Hazlehurst; R. N. McEachern, Douglas; Pringle & Smith, Archt., Norris Bldg., Atlanta.

Ky., Oakland—Gooseneck Sparkplug Co., capital \$25,000, incorporated; W. D. Hinton, Henry A. Floyd.

La., Baton Rouge—Louisiana Signal Corp., incorporated; Emmet A. Jones, Raymond Bldg.

La., Donaldsonville—See Natchez, Miss.

La., Grayson—See Natchez, Miss.

La., Lake Charles—Coca-Cola Bottling Co., Front St., let contract to E. T. Buford for \$40,000 plant, Lawrence and Bilbo St.; 71x115 ft.; 2 story, brick, steel, conc.; includes bottling works, office and storage space, laboratory and garage; R. S. McCook, Archt., Frank Bldg.

La., Monroe—H. & H. Hatchery Corp., capital \$25,000, incorporated; H. C. Hazel, Sterlington Rd.

La., Monroe—Monroe Bedding Factory, Inc., capital \$35,000, chartered; C. Pecastaing, 101 S. 5th St.

La., New Orleans—Union Building Corp., incorporated; W. Irving Moss, Union Ind. Bldg.

La., New Orleans—Independent Laundry Inc., 2532 St. Philip St., having plans completed for laundry, St. Peters near N. Dorgenois St.; 1 story and mezzanine, 165x148 ft., rein. conc. and masonry, rein. conc. foundation, steel roof, steel sash, conc. floor, sprinkler system, wood floors; Jones, Roessle & Olschner, Archt., Maison Blanche Bldg.

La., Oakdale—C. A. Woolsey, Glenmora, acquired Hargrove Dairy; improve.

La., Winnsboro—See Natchez, Miss.

Md., Baltimore—Liberty Heights Nurseries, Inc., William A. Reed, Pres., 3404 Dupont Ave., acquired tract, Liberty Heights Ave.; greenhouse now being designed and erected by Lord & Burnham, Land Title Bldg., Philadelphia, Pa.; let contract to J. A. Marriott, Jr., Liberty Rd., for office, designed by Guy Gaston, Archt., 748 Grantley St., plans improving main residence.

Md., Baltimore—Urban Laundry Co., 1920 Clifton Rd., let contract to C. W. Schmidt, Hearst Tower Bldg., for \$15,000 addition to laundry; 1 story, brick, steel.

Md., Baltimore—Tyler Resilient Tire & Tube Corp., E. E. Trieber, V.-Pres., 216 Schley St., Cumberland, has 60-acre site in North Baltimore, offered for establishing plant to manufacture newly patented tire. (See Waynesboro, Va., 6-6.)

Md., Baltimore—F. G. Schenult Rubber Co., 1200 Mt. Royal Ave., let contract to Adam Kratz, 118 S. Carrollton Ave., for rebuilding burned plant, Woodberry; John Freund, Archt., 1307 St. Paul St. 12-5

Md., Baltimore—National Biscuit Co., 85 Ninth Ave., New York, reported, acquired substantial stock interest of Purity Bakeries Corp., 844 Rush St., Chicago, Ill.; purchasing company has bakeries in South in Baltimore; Atlanta, Ga.; Charleston, S. C.; Houston, Tex.; Kansas City, St. Louis and Sedalia, Mo.; Abilene, Dallas, Fort Worth, Houston, Beaumont and Wichita Falls, Tex.; Memphis, Tenn., and Louisiana, Ky.; Purity Bakeries Corp. has plants in South at Springfield, Kansas City, St. Louis and Sedalia, Mo.; Abilene, Dallas, Fort Worth, Houston, Beaumont, and Wichita Falls, Tex.; Memphis, Tenn., and Louisville, Ky.

Md., Cumberland—Schmidt Baking Co., Laurens & Carey Sts., Baltimore, acquired Queen City Bread Co. plant, Pearre Ave. and Frederick St.

Md., Frederick—James E. Crass, Pres., Coco-Cola Bottling Works, Richmond, Va., acquired 40% interest of Nathaniel Luther Lea in Frederick Coca-Cola Bottling Co., Inc.

Md., Hagerstown—Hagerstown Timber Treating Co., Inc., R. D. Tonkin, erecting timber treating plant equipped with 2 cylinders, 6x84 ft., compressor with motor, 17x10 in.; 150-h. p. boiler with feed water pump, material storage tanks with necessary pipe valves and fittings, full equipment of tram cars; do commercial treating, using creosote or salts, and will treat ready for use, mine timbers, railroad ties, industrial lumber and poles; J. B. Ferguson & Co., Gen. Contr., 39 W. Washington St. 11-28

Md., Cumberland—Alexander and Dixon C. Sloan, 535 Green St., leased with privilege of purchase, Lonaconing glass plant, operated by Utility Glass Co.; plan improvements.

Mo., Brentwood—Herriott Polish Co., capital \$61,000, incorporated; P. B. Belches, 3660a Connecticut Ave., St. Louis.

Md., Port Deposit—Victory Sparkler & Specialty Co., Elkton, leased plant of Bibba Foundry Co., and will remodel for branch plant for sparkler novelties of metal and other materials.

Md., Secretary—Glen Mary Poultry Farm, Inc., chartered; Edward Strohman, Queen's Village, N. Y.; Wesley L. Hall, Secretary.

Miss., Laurel—Lindley Battery Mfg. Co., H. B. Lindley, Pres., plans storage battery plant soon; sheet iron, conc. floors, galv. iron roof; output within 90 days to be about 600 batteries monthly; production to be increased later. 11-28

Miss., Natchez—H. C. Hazel, Sterlington Rd., Monroe, La., plans establishing poultry hatcheries at Natchez, Miss.; Winnsboro, Grayson and Donaldsonville, La.; install modern equipment; capacity of local plant to be 16,128 eggs.

Mo., Carthage—Edward Aaron, Inc., plans expending approx. \$10,000 improving poultry and egg packing plant in spring to double capacity; extend present building at each end adding approx. 100 ft. in length; present poultry packing capacity 12,000.

Mo., Frankford—Mineral Springs Park, Inc., capital \$50,000, chartered; L. P. Tucker, J. M. Twiggs; amusement park.

Mo., Joplin—Healey Shoe Co., Inc., E. G. Healey, Pres., Webb City, move plant here and begin operations Jan. 20; leased building, Fourth St. and Grand Ave.

Mo., Kirkwood—Chamberlain Dairy Co., capital \$17,500, incorporated; Claude R. Chamberlain, A. A. Jekel.

Mo., Moberly—Randolph Co-operative Dairy Association acquired site for milk products plant; building cost approx. \$12,000.

Mo., Springfield—Springfield Tablet Mfg. Co., 300 N. Jefferson St., writing tablet manufacturer, let contract to M. E. Killiox, Monnett, for plant and office; brick, stone, rein. conc., L shape, 2 story, 60x120 ft., and 1 story, 50x60 ft.; Baldwin & Baldwin, Archt., Magnolia Bldg., Oklahoma City, Okla. 11-21

Mo., St. Joseph—H. G. Rix, Pres., 220 S. Eighth St., erect conc. addition to warehouse; install 5 paint machines. 12-5

Mo., St. Louis—Alco Laundry & Cleaning Co., Spring and Olive St., soon let contract for plant addition; 1 story top addition, 30x33 ft., brick; Otto J. Krieg, Archt., Wainwright Bldg.

Mo., St. Louis—Klein Drug Co., Inc., 5720 Easton St., capital \$15,000, chartered; Mollie Weinberger, Carl N. Klein.

Mo., St. Louis—Monsanto Chemical Works, Falling Springs Rd., let contract to Westlake Construction Co., Ry. Exch. Bldg., for \$10,000 plant, 1900 S. Second St.; 60x102 ft., tile roof.

Mo., St. Louis—Johnston Tin Foil & Metal Co., W. H. McIntyre, 6106 S. Broadway, drawing plans for plant addition; C. F. Deitring, Archt., 1320 Central Natl. Bank Bldg.

Mo., St. Louis—Vulcor Corp., capital \$23,000, incorporated; C. Norman Jones, 4638 Pershing St.; non-corrosive and insulating materials, synthetic rubber, etc.

Mo., St. Louis—Eden Publishing House, J. P. Hennings, Mgr., 1712-18 Chouteau Ave., drawing plans for printing plant, Chouteau and Dolman St.; 4 story, brick; Hoener, Baum & Froese, Archts., 3605 Laclede St.

N. C., Lincolnton—Litha Bottling Works, Inc., capital \$10,000, chartered; R. H. Dellinger, Lewis Womack.

Okla., Oklahoma City—Bureau of Engraving, capital \$30,000, incorporated; William F. Finney, 1190½ Braner St.



Okl., Oklahoma City—City Council let contract to Graybar Electric Co., 603 W. Main, for installing wiring systems for new traffic signal lights. 11-28

Okl., Seminole—Seminole Nursery & Floral Co., capital \$20,000, incorporated; Ralph S. Livingston.

Okl., Tulsa—National Pipe & Supply Co., incorporated; L. F. Harkins, 1510 S. Boston St.

Okl., Tulsa—McCormick-Armstrong Printing Co., J. R. Price, Plant Mgr., 218-222 E. Fourth St., erect 2-story building; 15,000 floor space.

Okl., Tulsa—City plans voting Dec. 31 on \$7,658,561 bonds, \$40,000 for police traffic signal system, and \$475,000 for fire department and signal system. 10-17

S. C., Greenwood—Chamber of Commerce and others approved proposal of Kraft-Phenix Cheese Corp., 400 Rush St., Chicago, Ill., for establishing cheese plant; \$25,000.

Tex., Beaumont—Gulf Paper Products, capital \$25,000, incorporated; O. B. Sawyer, 875 Fifth St., erect \$50,000 paper bindery; 60x120 ft.; second unit covering approx. 40,000 sq. ft. adjoining property, to be erected; machinery purchased; import bulk paper and convert into tablets and blank books; W. B. Livesay, Archt., San Jacinto Life Bldg.

Tex., Dallas—Dallas Wirebound Box Co. changing name to Continental Box Co.

Tex., Dallas—Dieterich Bros. Certified Milk Farms, Inc., Herman F. Dieterich, Pres., P. O. Box 843, erect plant with 300 gal. daily output. See Want Section—Miscellaneous.

Tex., Dallas—Montoya Cattle Co., incorporated; Wiley Blair, Magnolia Bldg.

Tex., Dallas—National Lead Co., H. G. Worrell, International Life Bldg., St. Louis, negotiating to lease 2-story building for branch plant.

Tex., El Paso—West Texas Construction Co., Cotton Exchange Bldg., Fort Worth, acquired El Paso Bitulithic Co., Two Republics Bldg.

Tex., Mt. Pleasant—Texas Milk Products Co., Marvin Turney, Pres., Marshall, let contract to O. L. Crigler, Mt. Pleasant, for \$200,000 milk plant; 69x150 ft., brick, 2 and 3 story, conc. smoke stack 115 ft. high; have capacity of 120,000 lb. milk daily, and will manufacture sweet cream butter and powdered milk.

Tex., Paris—City Baking Co., capital \$15,000, incorporated; George W. Wortham, A. E. Crumley.

Tex., San Antonio—Teller Electric Co., Inc., capital \$10,000, chartered; V. F. Buchek, 715 Blanco St.

Tex., Taylor—Southwest Dairy Products Co., Santa Fe Bldg., Dallas, acquired Southland Creameries and will enlarge plant.

Va., Portsmouth—Hampton Roads Shipbuilding Corp., Edward E. Gann, Pres., Washington, D. C.; H. B. Spear, V.-Pres., Norfolk, recently incorporated, acquired shipbuilding plant of Spear Engineers, Inc., Bankers Trust Bldg.; maintain offices, Bankers Trust Bldg., Norfolk, temporarily.

## Motor Bus Lines and Terminals

Ark., Texarkana—Mid-Continent Bus Lines, Fort Worth, Tex., applied to Arkansas R. R. Comm., Little Rock, for permission to operate interstate and intrastate bus line to enter state at Texarkana, thence to Little Rock via Hot Springs over Hwy. 27, 70 and 71.

Ga., Augusta—Georgia R. R., C. A. Wick-ersham, Gen. Mgr., Atlanta, authorized by Georgia Public Service Comm. to discontinue operation of "The Picayune" commuters' train connection Thomson and Augusta, and substitute motor bus service.

La., Shreveport—Caddo Transfer & Warehouse Co., Inc., Baton Rouge, authorized by Louisiana Public Service Comm. to operate motor freight service on several routes.

Tex., Orange—R. P. Stephens, Orange, authorized by Texas Railroad Comm., Austin, to operate truck line out of Beaumont through Vidor and Orangefield to Orange daily.

Tex., Waco—Beeline Coaches, Inc., chartered; Sam H. Day, 2028 Austin Ave.

W. Va., Huntington—Ohio Valley Electric Railway Co., F. W. Samworth, Gen. Mgr., expend \$130,000 for improvements; ordered 6, 21-passenger city type motor buses through agency of Max Biederman, Inc., 233 4th Ave., costing approx. \$30,000; rehabilitate all of electric rolling stock in 1930.

## Railways

Ky., Hickman—Flood Gate—See Miscellaneous Construction.

Louisiana—Southern Pacific Lines in Texas and Louisiana, Texas & New Orleans R. R. Co., R. W. Barnes, Ch. Engr., Houston, Tex., authorized by Interstate Commerce Comm., Washington, to construct 7.3 mi. extension, Houma to point 1 mi. south of Intracoastal Canal in Terrebonne Parish; \$250,000. 11-21

La., Shreveport—Louisiana & Arkansas Ry. Co., H. C. Couch, Pres., expend \$1,000,000 for expansion in 1930.

Md., Baltimore—Baltimore & Ohio R. R., Daniel Willard, Pres., expend approx. \$55,000,000 for expansion, substantial amount in city.

Md., Baltimore—Pennsylvania R. R., W. W. Atterbury, Pres., Philadelphia, Pa., reported, expend \$300,000,000 for expansion, \$95,000,000 in 1930; includes \$100,000,000 for electrifying lines, New York to Washington and Philadelphia to Atglen; \$21,000,000 for 310,000 tons of steel rail in 1930; \$16,000,000 for signal extension program; \$9,000,000 for 100 mountain type locomotives. 12-5

Oklahoma—Charles Clay Briggs, 1310 S. Atlantic Place, Tulsa, reported, applied to Corporation Comm. for authority to build and operate railroad crossing state in southwesterly direction, McDonald County, Mo., to Waurika, Jefferson County, Okla., and to acquire Oklahoma Union Ry. Co., Tulsa, operating in Tulsa and Creek Counties; Oklahoma-Southwestern Ry. Co., T. B. Slick, Pres., Tulsa, operating, Bristow to Nuyaka, and property of Fort Smith & Western Ry. Co., L. B. Barry, Jr., V.-Pres. and Gen. Mgr., Fort Smith, which line would cross probably at Okemah.

Okl., Oklahoma City—Oklahoma City-Ada-Atoka Ry. Co., C. E. Ingersoll, Pres., Philadelphia, and Oklahoma City, applied to Interstate Commerce Comm., Washington, for permission to issue \$800,000 of common capital stock consisting of 8000 shares of par value of \$100 each; proceeds to be used to acquire 8000 shares of outstanding capital stock of Oklahoma City-Shawnee Interurban Ry., by exchange of stock on share-for-share basis.

Texas—Chicago, Rock Island & Pacific Ry. Co., J. E. Gorman, Pres., Chicago, Ill., ordered 5000 freight cars, 1000 composite gondola cars from Pressed Steel Car Co., Farmers Bank Bldg., Pittsburgh, Pa.; 1000 auto. mobile cars, Bettendorf Co., Bettendorf, Ga.; 500 automobile cars, Standard Steel Car Co., Frick Bldg., Pittsburgh; 1000 box cars, American Car & Foundry Co., 30 Church St., New York; 500 box cars, General American Car Corp., 230 C. Clark St., Chicago, Ill.; 500 box cars, Pullman Car & Mfg. Corp., Chicago, Ill.; 250 stock cars and 250 flat cars, Ryan Car Co.; plans purchasing passenger and baggage car equipment.

Texas—Southern Pacific Co., P. Shoup Pres., San Francisco, Cal., ordered 30,000 tons heavy steel rail from Tennessee Coal, Iron & Railroad Co., Birmingham, to be rolled at Ensley (Ala.) plant, involving approx. \$1,325,000, including accessories; 60,000 tons to Colorado Fuel & Iron Co., Boston Bldg., Denver, Col.; Bethlehem Steel Corp., Bethlehem, Pa., 30,000 tons.

West Virginia—Chesapeake & Ohio Ry. Co., C. W. Johns, Ch. Engr., Richmond, Va., authorized constructing additions and improvements to interlocking plants between Low Moor and B. S. Cabin, costing \$39,670, and replacing 2-position automatic semaphore signals with 3-position automatic color light signals from Old Point Junction to Oriana, Va., costing about \$29,675.

## Railway Shops and Terminals

Ark., Kensett—Missouri & North Arkansas Ry. Co., W. Stephenson, Receiver, Harrison, plans constructing engine house with own forces; 70x100 ft.; \$75,000. 10-10

Ky., Louisville—Cleveland, Cincinnati, Chicago & St. Louis Ry. Co., H. Baldwin, Ch. Engr., Cincinnati, Ohio, let contract to Roberts & Schaefer Co., 400 N. Michigan Ave., Chicago, Ill., for electric cinder handling plant at Louisville and Jeffersonville Bridge & R. R. terminal.

W. Va., Huntington—Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa., has contract for 25 type "NAB Nofuz" panelboards totaling approx. 450 circuits in connection with building for Chesapeake & Ohio Ry. Co., C. W. Johns, Ch. Engr., Richmond, Va.; United Engineers & Constructors, Inc., Gen. Contr., 1401 Arch St., Philadelphia, Pa. 4-18

## Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

### Proposed Construction

Ala., Anniston—City, S. J. Reaves, Mayor, plans widening and repaving Noble St., Tenth to Fourth.

Ala., Birmingham—City Comm. receives bids Dec. 17 for Green Springs road; A. J. Hawkins, City Engr.

Ala., Birmingham—City Comm. receives bids Dec. 17 grading, brick and asphalt paving conc. sidewalks, conc. curbing, gutters, granite curbing on various streets, costing \$162,200; A. J. Hawkins, City Engr.

Ala., Jasper—City Council, J. H. Cranford, Mayor, considering paving several miles of streets, including Twentieth St., within next few months.

Ala., Mobile—Mobile County Commrs., plan receiving bids soon for grading and bridges on extension of Cedar Point road; will sell bonds.

Ala., Montgomery—City Comm. plans paving, gutters and storm sewers on Fairview Ave., from Woodley Terrace to Narrow Lane road; resurface Martha St. with asphalt; J. M. Garrett, City Engr. 11-14

Ala., Tuscaloosa—City Commrs., Norfleet Harris, Pres., receive bids Dec. 20 for 12,000 sq. yd. 6-in. Portland cement conc. paving, 1800 lin. ft. integral curb, 12-in. high; 2660 cu. yd. grading; W. H. Nicol, City Engr.

Ark., Booneville—City Comm., Granville Tatum, plans paving 3 main streets in business section.

Ark., Rogers—City, J. H. Hood, Mayor, considering paving 23 blocks of streets, including Third, Fourth and Fifth Sts.

Ark., Pine Bluff—City Commrs. considering grading, draining curbing, gutters and paving; 14 blocks paving in southwest section; 14 blocks on East Seventeenth St.; about 80,000 sq. yd. grading, draining paving on West Sixth, West and East Fifth and Ohio St., estimated cost \$200,000; Chris Wright, City Engr. 11-28

Florida—State Road Dept., Tallahassee, plans expending \$10,000,000 in 1930 for road building.

Florida—State Road Dept., Tallahassee, plans receiving bids in Dec. for about \$750,000 road work; B. M. Duncan, State Highway Engr.

Fla., Inverness—Citrus County Commrs. plan receiving bids in Dec. for new surface treatment road on fill on west side of Weed's Landing Bridge, from bridge to intersection of old rock road.

Fla., Jacksonville—State Road Dept., Tallahassee, considering widening 3 mi. Main St. road, from Trout River to city airport, probably into city to connect with widened pavement nearing completion; probably widen Lake City road to 40 ft., McDuff Ave. to Broad St.; St. Augustine road, from South Jacksonville toward San Jose; B. M. Duncan, State Highway Engr.

Fla., Jacksonville—Duval County Commrs., Frank Brown, Clk., rejected bids for 3.64 mi. paving, Road No. 14, Hogan road to Big Pottsburg Creek, Dist. No. 5. 11-7

Fla., Jacksonville—City considering widening Beaver St., to 60 ft., Myrtle to McDuff Ave.; W. E. Shedd, City Engr.

Fla., Starke—State Road Dept., Tallahassee, making survey for new state farm road from Starke, Bradford County to Macclenny, Baker County.

Georgia—State Highway Bd., East Point, plans re-conditioning McBean Road, between Augusta and Waynesboro, and Cochran short road connecting Macon, Cochran and Eastman; considering paving Atlanta to Gadsden, Ala. Highway, from Atlanta to state line.

Ga., Macon—City, G. Glen Toole, Mayor, considering expending \$300,000 for paving and repaving; \$100,000, for widening streets. See Financial News Columns.

Ga., Savannah—City, R. H. Clements, Dir. of Public Works, receives bids Dec. 18 for 5328 sq. yd. 30-ft. wide, 6-in. plain and rein. conc. paving on Harmon St.

Louisiana—Louisiana Highway Comm., O. K. Allen, Chmn., Baton Rouge, plans expending \$5,000,000 for highways in 1930.

La., Houma—City receives bids Dec. 17 for paving and subsurface drainage, Lafayette, Main, Barrow, Park and Ruth St.; T. Baker Smith, City Engr.

La., Lake Charles—Missouri Pacific R. R. E. A. Hadley, Ch. Engr., St. Louis, plans paving and conc. sidewalk on Front St., Clarence to Broad St.; cost about \$50,000.

La., Lake Charles—City, J. E. Johnson, Commr. of streets and parks, considering about 1½ mi. street paving, including Eleventh St., Kirkman to South St.

La., New Orleans—Lock—See Miscellaneous Construction.

La., New Orleans—Louisiana Highway Comm., Baton Rouge, receives bids Jan 21 for 2 mi. hydraulic fill on Chef Menteur Highway, Route 2, Orleans Parish; H. B. Henderlite, State Highway Engr.

La., West Monroe, Monroe—City Council, C. C. Bell, Mayor, considering paving South Riverfront, from bridge to Mitchell lane.

Md., Annapolis—Anne Arundel County Commr., J. A. Bromley, County Engr., plan expending during 1930, \$200,000 for road improvements and \$45,000 for bridges.

Md., Baltimore—City, Wm. F. Broening, Mayor, plans widening Ensor St., Gay to Eager; Chas. F. Goob, Ch. Engr.

Md., Baltimore—City, Bd. of Commrs. for Opening Streets, John H. Robinette, Pres., approved plans to open Hanover St., Fayette to Cathedral at Saratoga St.; Nathan L. Smith, Highways Engr.

Md., Frederick—City, Lloyd C. Culler, Mayor, plans expending \$152,000 during 1929-1930 for various improvements, including sewers, water and streets.

Md., Rockville—Montgomery County Commrs., Berry E. Clark, Clk., plan expending \$300,000 during 1930 for improved highways.

Miss., Columbus—City, T. W. Harris, Mayor, plans paving with conc. Seventh Ave., North, Ninth to Military road.

Miss., Marks—Town, Bd. of Aldermen, plans paving, curb, gutter and water connections on First, Cherry and Main Sts.; probably start work early in 1930.

Missouri—State Highway Dept., Jefferson City, plans expending about \$1,370,837, in 1930, in Jackson and Clay Counties for road work.

Missouri—State Highway Comm., Jefferson City, receives bids Dec. 20 for 25 roads and 17 bridges: Nodaway County—4.702 and 1.593 mi. 18 ft. gravel, Iowa State line south, 206,632 cu. yd. excavation, 493,640 lb. struct. steel; bridges over Channel Change, Nodaway River, Sink and Clear Creeks; Linn County—3.465, 2.917, 1.749 and 4.840 mi. 20-ft. conc., Chillicothe-Brookfield road, 36,223 cu. yd. excavation, 150,128 sq. yd. paving; Livingston County—2.068, 3.460, 3.879 mi. 20-ft. conc., Chillicothe-Brookfield road, 25,604 cu. yd. excavation, 110,296 sq. yd. paving; Knox County—4.583 and 4.403 mi. 16-ft. gravel, Adair County line—Route 15, 160,828 cu. yd. excavation, 11,827 cu. yd. paving; Pike County—2.805 mi. 30-ft. graded earth, Bowling Green-Louisiana road, 62,046 cu. yd. excavation, bridge over Nolx Creek; Carroll County—872 mi. 18-ft. gravel Carrollton-spur, 7,915 cu. yd. excavation; Pettis County—4.671 mi. 30-ft. graded earth, Windsor, east, 75,143 cu. yd. excavation, bridge over Flat Creek, 84,860 lb. struct. steel; Cole County—3.030 mi. 18-ft. gravel, Eugene north and south, 66,963 cu. yd. excavation; Miller County—3.462 mi. 18-ft. gravel, Eldon-Dam site, 131,669 cu. yd. excavation, bridges over Wright Creek and Dry Branch, deck girders; Morgan County—3.941 mi. 18-ft. gravel, Versailles-Stover, 65,345 cu. yd. excavation, 4,950 cu. yd. paving; Lawrence County—2.472 and 3.066 mi. 18-ft. creek rock, Chesapeake east and west, 94,934 cu. yd. excavation, bridges over Chesapeake Branch, Dry Wash, Goose Creek; Newton County—209 mi. 18-ft. conc., Reddings Mill, 4,068 cu. yd. excavation, bridge over Shoal Creek; Oregon County—4.953 mi. 18-ft. gravel, Alton South; Wright County—2.731 and 2.688 mi. 18-ft. gravel, Hartsville north; Wayne County—3.201 and 3.244 mi. 30-ft. graded earth, Greenville-Taskee, 113,422 cu. yd. excavation; T. H. Cutler, Ch. Engr.

Mo., Carthage—State Highway Comm., Jefferson City, making survey for new Carthage-Neosho road, south from Fidelity, through Diamond to near Granby; plan relocating Highway No. 16 to connect with new Carthage-Neosho road; probably let contract early in 1930 for grading and bridges; T. H. Cutler, Ch. Engr.

Mo., DeSoto—City, W. H. Harris, Clk., receives bids soon to improve East Main St., Dist. No. 1 and 2, 4,308 sq. yd. conc.; Russell & Axon, Engrs., 6200 Easton Ave., St. Louis, and 408 McDaniel Bldg., Springfield, Mo.

Mo., Kansas City—Jackson County Court, Allen C. Southern, Judge, Independence, considering widening 60 to 80 ft., and extending Thirty-seventh, from Blue River to right-of-way of Kansas City Southern R. R. at Leeds.

Mo., New Madrid—State Highway Comm., Col. C. D. Matthews, Chmn., Jefferson City, plans paving with conc., ½ mi. gravel spur connection from city limits of New Madrid to Highway No. 61.

Mo., St. Louis—St. Louis County, Walter E. Miller, Clk., Clayton, plans 100-ft. right-of-way highway with 20-ft. slab of conc., intersecting with Manchester road, beyond county line; grading will begin at once, and completed within 2 years; will build culverts and bridges; cost \$1,000,000.

Oklahoma—State Highway Comm., Oklahoma City, receives bids Dec. 17 for 10 roads, totaling 69 mi. grading, draining, and 6 bridges: Washita County—2 mi., State Highway No. 41, about 8 mi. east of Cordell; about 5 mi. State Highway No. 14, Bessie, north to Custer County line; bridge over Washita River; Custer County—1½ mi., from Washita County line, north connecting with U. S. Highway No. 66; Pontotoc County—10.89 mi., and bridge, State Highway No. 48, Ada north to Konawa Bridge; Wagoner County—7.37 mi., State Highway No. 11; Muskogee County—3.855 mi., State Highway No. 27, Muskogee northeast to Fort Gibson; 6.05 mi., U. S. Highway No. 73, Muskogee to Wainwright; Caddo County—12.173 mi., State Highway No. 9, Fort Cobb to Kiowa County line; Pushmataha County—about 5 mi., State Highway No. 10, LeFlore County line to Albiion; McIntosh County—5 bridges on State Highway No. 9 and U. S. Highway No. 266; A. R. Losh, State Highway Engr.

Oklahoma City and Creek County, plan 8½ mi. paved Highway No. 75, between Sapulpa and Mounds.

Okl., Sapulpa—State Highway Comm., Oklahoma City and Creek County, plan 8½ mi. paved Highway No. 75, between Sapulpa and Mounds.

Okl., Tulsa—City, Dan W. Patton, Mayor, plans expending \$64,441 to widen Fifth St. to 56 ft., Cheyenne Ave. to Seventh St.; Sixth St. to 56 ft., Denver Ave. to Seventh; Seventh St. to 44 ft., Galveston to Houston Ave.; K. E. Teis, City Engr.

Okl., Tulsa—City, Dan W. Patton, Mayor, receives bids soon for \$80,000 paving, sidewalk and sewers in various districts; K. R. Teis, City Engr.

Okl., Tulsa—City, Dan W. Patton, Mayor, plans expending \$2,000,000 to improve streets, including grade separation: \$400,000 to widen Arkansas River Bridge; K. R. Teis, City Engr. See Financial News Columns.

Tennessee—Dept. of Highways and Public Works, Nashville, plans expending during 1930, \$20,000,000 for highway building, grading and drainage, and surfacing: \$4,800,000, on toll bridge construction; \$3,500,000, bridges over 20-ft. spans on grading and draining sections; \$7,400,000, maintenance of present highways; T. E. McEwen, State Highway Engr.

Tenn., Lewisburg—City plans street improvement. See Financial News Columns.

Tenn., Memphis—City, D. C. Miller Clk., plans widening, grading, draining, curbing, gutters, paving, Poplar Ave., Dunlap to Garland St.; 9,500 lin. ft. granite curb, 18,600 sq. yd. asphalt paving; Wm. B. Fowler, City Engr.

Tenn., Whiteville—City, Flynt Ferguson, Clk., received low bid from Y. Y. Phillips, Martin, for street improvements.

Texas—State Highway Comm., Austin, receives bids Dec. 16-17 for 2 roads: Shackelford County—17.1 mi. caliche base course, Highway No. 23, from Highway No. 1-A, near Albany, to Throckmorton County line; Matagorda County—13.3 mi. conc., Highway No. 58, from point south of St. Louis, Brownsville and Mexico R. R. underpass to Colorado River Bridge; cancelled bids for roads in Shackelford and Walker Counties; Gibb Gilchrist, State Highway Engr.

Texas—State Highway Comm., Austin, plans completing 5 mi. road between Taylor and Elgin in Bastrop and Travis Counties; \$25,368 allotted.

Texas—State Bd. of Control, Austin, plans expending in 1930, \$74,000 for street paving.

Texas—State Highway Comm., Austin, plans expending \$35,000,000 in 1930 for roads, etc.

Tex., Angleton—Brazoria County considering expending \$4,500,000 to improve 143 mi. state highways east and west, and north and south through county, develop system of lateral roads. See Financial News Columns. 11-14

Tex., Beaumont—City Comm., J. W. Anderson, City Mgr., plans expending \$100,000 to \$125,000 for paving, including streets in Kirby Addition; R. C. Black, City Engr.

Tex., Beaumont—City, J. W. Anderson, Mgr., considering extending Orleans St., 60-ft. wide, to Pearl St. or to Broadway; R. C. Black, City Engr.

Tex., Belton—Bell County, Owen P. Carpenter, County Judge, plans expending \$2,200,000 for 35 roads, including Temple-Oenaville; Oenaville-Belfalls; Troy-Belfalls; West and East Bottoms; Airville-Oenaville; will vote on bonds. 11-21

Tex., Cuero—State Highway Dept., Austin, plans starting, before Dec. 15, to hard surface highway between Cuero and Westhoff; Gibb Gilchrist, State Highway Engr.

Tex., El Paso—City, W. E. Robertson, Finance Commr., plans expending, during 1930, \$23,000 for paving; \$45,000, for alley improvements, including new traffic light system.

Tex., El Paso—City Council receives bids soon to pave Rim road with bitulithic, conc., etc.; H. G. Stacey, City Engr.

Tex., Fort Sam Houston, San Antonio—U. S. Government, Capt. Wm. R. White, Constructing Quartermaster, receives bids Dec. 29 for 2,800 sq. yd. gravel roadways, 9,770 sq. ft. cement walks, 2,400 cu. yd. additional grading around buildings.

Tex., Fort Worth—City, O. E. Carr, Mgr., has available \$4,600,000 for grade separation, street widening, new traffic arteries, bridges, Central fire station, and improvements at municipal airport; work under way on number of these projects.

Tex., Galveston—Galveston County, E. B. Holman, County Judge, receives bids soon for road across east end flats connecting Fort Point with seawall.

Tex., Galveston—War Dept., Washington, granted permit to Galveston County to build roadway over San Jacinto Military Reservation at Fort Point, in connection with new Beaumont-Galveston Highway.

Tex., Groesbeck—Limestone County Commrs., considering expending \$1,000,000 to pave highway across county from Mart to Groesbeck, and Groesbeck to Personville, Farrar and Leon County line, near Jewett. See Financial News Columns.

Tex., Houston—City, Walter E. Monteth, Mayor, received low bid from Gulf Bitulithic Co., 2820 Polk St., Houston, to pave Yale St., Washington to Twenty-second, 2-in. asphalt topping, 6-in. conc. base, \$148,526; 2¼-in. brick, 6-in. conc. base; over \$200,000; black base, \$131,396; H. L. Shaw, City Engr. 11-14

Tex., Houston—City, W. E. Monteth, Mayor, plans widening and paving Washington Ave., Harrisburg Ave., Alameda road, and Houston Ave.; open East Gray Ave. to Connect with Shepherd Dr. on west and Telephone road on east; straighten Houston Ave. at White Oak Drive; total cost \$4,500,000; underpasses, \$1,600,000; H. L. Shaw, City Engr.

Tex., Hempstead—State Highway Comm., Austin, receives bids Dec. 17 for 10 mi. grading, draining, State Highway No. 6, Hempstead to Harris County line; Gibb Gilchrist, State Highway Engr.

Tex., Houston—City, W. E. Monteth, Mayor, considering 60-ft. wide paving, etc., on Kessler and Dart St., from Houston Ave. into proposed extension of White Oak Drive, cost over \$200,000; tentative plans for wooden bridge over low land in elbow bend of White Oak Bayou; H. L. Shaw, City Engr.

Tex., LaPorte—City, F. W. Reynolds, Mayor, plans expending \$5000 to shell-surface and improve streets. See Financial News Columns.

Tex., Lockhart—State Highway Comm., Austin, plans improving Highway No. 80, Caldwell County, from Hays County line, through Martindale, Fentress, Prairie Lea and Stairtown.

Tex., Madisonville—State Highway Dept., Austin, plans expending \$268,485, in Madison County, toward paving Highway No. 21, to Brazos County line; Gibb Gilchrist, State Highway Engr.

Tex., Marlin—Falls County considering expending \$446,000 for roads in Road Dist. No. 4. See Financial News Columns.

Tex., Odem—City plans placing caliche on main streets leading from Park Ave. to connect with Missouri Pacific R. R. property.



Tex., San Antonio—City, C. W. Chambers, Mayor, plans widening Main Ave. at French Place; considering paving Martinez St., St. Mary's to Aubrey; Aubrey St., Martinez to Guilbeau, and Guilbeau St., Aubrey to Dwyer; I. Ewig, City Engr.

Tex., Smithville — State Highway Comm., Austin, plans asphalt topping, 6 mi. Austin-Smithville Highway, No. 71, between Onion Creek and Garfield.

Tex., Sonora—Sutton County considering expending \$200,000 for roads. See Financial News Columns.

Tex., Sweetwater — State Highway Dept., Gibb Gilchrist, Highway Engr., Austin, making survey for 4 mi. hard surfaced highway, connecting Sweetwater, Nolan County, with Roby road, at Fisher County line; S. C. Daugherty Res. Engr.; Fisher County making survey for Highway No. 70.

Tex., Temple—Hebron School Dist., Bell County, plans expending \$8,500 for 2.3 mi. road, between K-T Highway and Belton Highway in Taylor's Valley, and spur road east from Hebron school center on K-T Highway. See Financial News Columns.

Tex., Throckmorton—State Highway Comm., Austin, receives bids Dec. 16 for 15.42 mi. crusher run broken stone base courses from Throckmorton, Throckmorton County, to Baylor County line; J. E. Pirie, Res. Engr.; Gibb Gilchrist, State Highway Engr.

Virginia—State Highway Comm., Richmond, receives bids Dec. 31 for 3 roads: Scott County—2.2 mi. macad., Route 10; Isle of Wight County—7 mi. grading, draining, Route 10; Gloucester County—1.9 mi. grading, draining, Route 29; C. S. Mullen, Ch. Engr.

Va., Danville—State Highway Comm., Richmond, making survey of State Highway No. 12, Danville to Martinsville to eliminate curves; C. S. Mullen, Ch. Engr.

Va., Richmond—City, R. Keith Compton, Dir. of Public Works, plans expending, during 1930, \$500,000 for smooth paving; \$225,000 for grading, graveling, curbing, gutters, unimproved streets; \$30,000 to oil streets; J. Fulmer Bright, Mayor.

Va., Stuart—State Highway Comm., Richmond, may let contract in early spring for 8 mi. hard surface road, from Stuart toward North Carolina line, cost about \$95,000; work probably begin in March.

Va., Virginia Beach — Town, Charles E. Barco, Mayor, plans paving Atlantic Ave., Fourteenth to Twenty-ninth; Artie Ave., Fourteenth to Thirty-first; Donald Calcott, City Engr. See Financial News Columns.

W. Va., Charleston — Kanawha County Court, R. N. Moulton, Clk., receives bids Dec. 1 for 3.17 mi. grading, draining, Kellys Creek road, from point on Midland Trail, at Cedar Grove, up Kellys Creek to Ward.

#### Contracts Awarded

La., Bossier City — City let contract to Nattin & Murtishaw, Homer, La., \$6,915, to pave Wilhelmine St. with rein. conc.; Charles D. Evans, Consol. Engr., Shreveport.

Miss., Columbus—Lowndes County Bd. of Supvrs., John J. Richards, Clk., let contract to Waters & McCrary to gravel Air Line road, near Eggleston Bridge; to Freeman & Brazil, for fill at Cedar Creek Bridge.

Okl., Tulsa—City, Dan W. Patton, Mayor, let contracts totaling \$69,469 to pave and widen 6 streets, including Nineteenth, Archer St., Cincinnati Ave.; Standard Paving Co., 2119 E. Eleventh St.; H. L. Cannady Co., 1118 S. Lewis St.; Carl Pleasants, Inc., 229 N. Nogales St.

#### Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Birmingham—City plans voting about Feb. 15 on \$3,000,000 bonds for first unit of storm sewers to eliminate floods in low sections of city; A. J. Hawkins, City Engr.

Ala., Montgomery—See Roads, Streets, Paving.

Ark., Fort Smith—City defeated \$54,000 sewer bonds. 10-24

Fla., Tampa—City, reported, construct first unit of Comanche Ave. sewer; cost \$40,000.

Ga., Columbus—H. B. Crawford, City Mgr., receives bids Dec. 20 for sewers. See Want Section—Bids Asked.

Ga., Macon—City considering voting in Jan. on bonds for storm sewers, park improvements. See Financial News Columns.

Ky., Louisville — City, reported, contemplates expenditure of \$1,875,000 during first 6 months and \$412,000 during second 5 months of 1930 for sewers. 11-28

Ky., Louisville—Comms. of Sewerage, 400 Marion E. Taylor Bldg., advises plans have not been completed for Southwestern Outfall sewer, no definite date of letting has been set; will probably let first section of work in early summer 1930. 11-28

La., New Orleans—Sewerage and Water Bd., reported, received low bid from Jas. McGowan, 1209 Joseph St., for furnishing labor and material on percentage basis for water works, sewerage and drainage construction in 1930.

Md., Annapolis — Anne Arundel County Comms. may expend \$55,000 for sewers in 1930.

Md., Baltimore—N. Martel, 4400 Vesta Ave., has contract at \$29,028 for extension of sanitary system, several vicinities, Storm Water Cont. No. 138.

Md., Frederick—See Roads, Streets, Paving.

Md., Rockville—See Water Works.

Miss., Columbus—City plans conc. curb, gutter and storm sewers of brick, clay or conc., Seventh St., 87th Ave. and 15th St.; soon call for bids.

Mo., St. Louis—Bd. of Public Service, E. R. Kinsey, Pres., receives bids Dec. 17 for Sec. F, River Des Peres drainage works; work will be let on unit bids; estimated cost \$1,500,000; project consists of 1 mile of 32 ft. rein. conc. sewer built to considerable extent in bed of present stream, construction of junction chambers, intakes and other special structures. 12-5

N. C., Valdese—Moser & Bumgarber, Hickory, has contract for sewer system.

Okl., Tulsa—See Roads, Streets, Paving.

Okl., Tulsa — City install storm and sanitary sewers, and make park improvements; may vote on bonds Dec. 31. See Financial News Columns.

Tex., Abilene — Bd. of Comms. receives bids Dec. 20 for sanitary sewers. See Want Section—Bids Asked.

Tex., Columbus—City voted \$50,000 sewer bonds. 10-31

Tex., El Paso—See Water Works.

Tex., Houston—City reported, plans storm sewer along Lawndale Ave., cost \$10,000 and storm sewers draining Connor and Barzizo Additions, cost \$100,000.

Tex., Houston—C. D. Yakeley, reported, low bidder at \$18,007 for storm and sanitary sewers Yale St.; city, reported, plans voting on bonds for drainage at Norhill, Sunset Heights, Studewood and adjoining additions. 11-28

Tex., Jasper—City receives bids Dec. 19 for sanitary sewers and water works. See Want Section—Bids Asked.

Tex., LaPorte—See Water Works.

Va., Richmond—City plans expending \$500,000 for sewer work in 1930.

Va., Virginia Beach—City, Charles E. Barco, Mayor, voted sewer bonds. See Financial News Columns.

#### Street Railways

Mo., St. Louis—St. Louis Public Service Co., 3869 Park St., expend \$12,000 altering 1-story car barn, 3815 Evans St.; owner, builder and architect.

W. Va., Huntington—See Motor Bus Lines and Terminals.

#### Telephone Systems

Ark., Monette—Arkansas Associated Telephone Co. started repairing telephone plant; rebuild lines, repair offices and lay underground cables in Lake City, Monette, Black Oak, Manilla and Truman; owner builds.

La., Baton Rouge—T. H. Harris, State Supt. of Education, interested in establishing radio station at Louisiana State University.

La., Shreveport—Edson Realty Co., completing plans for \$150,000 building, Edwards St.; 3 story, 50x150 ft., rein. conc., brick, fireproof, pile foundation, built-up, comp. roof, tile and marble work, steel sash, steel rolling doors, sprinkler system; Western Union Telegraph Co., New York, Lessee; Tisdale, Stone & Pinon, Archt., Beaumont, Tex. 11-28

Md., Baltimore — Chesapeake & Potomac Telephone Companies, Lloyd B. Wilson, Pres., Homer Bldg., expend \$22,000,000 for construction in 1930; \$8,000,000 in Maryland; \$3,500,000, District of Columbia; \$6,200,000, Virginia, and \$4,450,000 in West Virginia; facilities to be provided include buildings, central office apparatus, local and inter-city telephone lines and other equipment; part of \$100,000,000 5-yr. program, including \$12,000,000 for land and buildings, \$22,500,000 for central office equipment and \$10,50,000 for inter-city toll lines and cables.

Md., Baltimore — Chesapeake & Potomac Telephone Co. let contract to E. Eyring & Sons Co., 808 S. Conklin St., for \$40,000 Curtis Exchange, Patapsco Ave. and Sixth St.; 3 story, brick; Herman F. Doelman, Struc. Engr., 516 N. Charles St.; C. L. Reeder, Mech. Engr., 916 N. Charles St.; Taylor & Fisher, Archts., Union Tr. Bldg.

Missouri—Southwestern Bell Telephone Co., St. Louis, and Ozark Central Telephone Co., Cabool, applied to Public Service Comm., Jefferson City, jointly applied for former company to acquire ¼ interest in Ozark Central Telephone Co. line, Cabool north about 140 mi.

Mo., St. Louis—Voice of St. Louis, Nelson P. Darragh, Pres., Mayfair Hotel, let contract to C. A. Welsch Construction Co., DeMott Bldg., for radio transmitting plant for KMOX; 1 story, brick, rein. conc., 51x49 ft.; Wm. West, care owner, Engr. 10-24

Va., Richmond—Bd. of Directors of Chesapeake & Potomac Telephone Co. of Virginia, John A. Remon, Gen. Mgr., authorized installation of new telephone toll switchboard, costing approx. \$353,500, included in \$606,815 for betterments for system in state.

#### Textile Mills

N. C., Durham—Stockholders of Durham Hosiery Mill, Inc., will endorse plans for reorganization of capital structure; plan installing 16 full fashioned machines in 1930. 11-28

N. C., Forest City—Ellenboro Mfg. Co., J. M. Lamley, plans beginning work Jan. 1 on textile mill of 8000 spindles and 50 Jacquard looms; construct employees dwellings; manufacture tapestries, bedspreads, etc. 12-5

N. C., Gastonia—Frank and Robert Goldberg of American Mills, Bessemer City, acquired plants of Armstrong, Dunn and Clara Cotton Mills; products of 3 mills to be used in weaving fabrics of various descriptions; later may improve plants.

N. C., Hickory—Elliott Knitting Mills, reported, install 8 Schubert & Salzer, 629 15th St., New York, full fashioned machines.

S. C., Clover—Stockholders of Hawthorne Spinning Co., reported, vote Dec. 10 on merging with Hampshire Spinning Co.

N. C., Lincolnton—Boger & Crawford, reported, install mule spinning equipment.

Okl., Oklahoma City—George Brodt, former manager of International Shoe Co., St. Louis, Mo., reported, plans erection of \$100,000 glove plant at Capitol Hill; manufacture workmen's gloves; later plan equipping plant with weaving machinery to manufacture gloves from raw cotton.

S. C., Ninety-Six—Ninety-Six Cotton Mills, reported, install 270 of 36-in., and 220 of 40-in. Draper Model E automatic looms; erecting 3 section, 2 story, brick warehouse.

Tenn., Trenton—Trenton Mills, Inc., W. A. Harder, Pres., Valatie, N. Y., plans rebuilding spinning and knitting mill as soon as arrangements can be made; probably steel and brick, 300x104 ft.; will move machinery from Northern plant. 12-5

Va., Blackstone—Klotz Silk Mfg. Co., main plant Clifton, N. J., reported, install 50 additional looms, manufactured by Crompton & Knowles Loom Works, Worcester, Mass.; double capacity of plant; also installing complete silk throwing equipment.

Va., Lynchburg—Lynchburg Hosiery Mills, Inc., increased capital \$100,000 to \$300,000.

## Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ark., Bald Knob—St. Louis County Water Co., 6600 Delmar, St. Louis, Mo., has franchise for water supply. 12-5

Ky., Louisville—Louisville Water Co., reported, expend \$175,000 for improvements.

Md., Baltimore—City receives bids after Jan. 1 for Vernon Pumping Station, Druid Hill Park; E. G. Rost, Water Engr.; J. H. Gregory, Consult. Engr., Johns Hopkins University, Charles St. at Hopkins Place. 9-26

Md., Baltimore—McCall & Watts, 3404 Marmon Ave., low bidder for Guilford pumping station. 11-28

Md., Frederick—See Roads, Streets, Paving.

Md., Rockville—Montgomery County plans expending \$280,000 during 1930 for extension water and sewers.

Miss., Bay St. Louis—City Commrs. reported, let contract to McWane Cast Iron Pipe Co., Birmingham, Ala., for iron pipe fittings and lead; to Columbian Iron Works, Chattanooga, Tenn., for fire hydrants. 11-28

Mo., Bismarck—City install pump, tank and tower, etc., in connection with water works; \$47,000 available. See Want Section—Machinery and Supplies. 12-5

Mo., Concordia—City, reported, plans water works, distribution and sewerage system; cost \$80,000.

Tenn., Johnson City—City, Mayor Ellison, plans \$400,000 water works expansion.

Tenn., Murfreesboro—American Cast Iron Pipe Co., Birmingham, Ala., has contract for 6300 ft. of 12-in. and 11,000 ft. of 8-in. Class 150 Mono-Cast centrifugal pipe in 16-ft. lengths for water works extension throughout city; C. N. Harrub Engineering Co., Fourth and Frost National Bank Bldg., Nashville, Consult. Engrs. 12-5

Tex., Austin—City, Adam R. Johnson, Mgr., reported, plans water extension, including main from municipal plant to 19th St.

Tex., Brownwood—City, reported, soon let contract for carload of 6-in. pipe for water mains; plans south side sewer lines and sewage disposal plant. 10-3

Tex., El Paso—City plans expending \$300,000 for water works, \$120,000 for drainage, \$47,000 for sewers, \$35,000 for parks.

Tex., Fort Worth—Tarrant County Water Control and Improvement Dist. No. 1 acquired 8700 acres to be used for construction of Bridgeport and Eagle Mountain Lakes in connection with water supply project on West Fork Trinity River; negotiating for 8000 additional acres; Hawley & Freese, Consult. Engrs., 411 Capps Bldg. 11-14

Tex., Jasper—City receives bids Dec. 19 for sanitary sewers and water works; Garland Smith, Mayor. 11-21. See Want Section—Bids Asked.

Tex., LaPorte—City voted \$70,000 sewer bonds; \$15,000 water extension bonds; F. W. Reynolds, Mayor. 11-7

## Woodworking Plants

Ark., Fort Smith—Garrison Co., N. 1st St., erecting \$25,000 annex to shipping, finishing and storing rooms, to be completed by Jan. 1; 3 story, 30x140 ft.; add dining room furniture to output.

Ark., Fort Smith—Ward Furniture Mfg. Co., 1200 N. 9th St., erecting warehouse; 1 story, 40x300 ft.

La., Marksville—Hyde-Henner Cooperage Co., Memphis, Tenn., reported, leased tract and soon start erecting stave plant.

Tenn., Memphis—Davis Cabinet Co., incorporated; L. W. Davis, 1379 Thomas St.

Tenn., Nashville—Davis Cabinet Co., L. W. Thomas, 1379 Thomas St., Memphis, acquired Standard Furniture Co., 901 Fifth Ave., S., including plant and offices.

## FIRE DAMAGE

Ala., Brewton—Senator W. X. Lovelace's residence; loss \$42,000.

Ala., Decatur—Building of Sterchi Stores, Inc., Second Ave.; Buttrey Department

Store; offices of Alabama Power Co.; loss \$100,000.

Ala., Gadsden—Martha Washington Apartments; loss \$75,000.

Fla., Lynn Haven—Hotel Lynn Haven; loss \$50,000.

Ga., Atlanta—Warren Memorial Methodist Church, Greensberry Ave. and Mildred St., Rev. Saml. Miller, Pastor; loss \$78,000.

Ga., Damascus—Methodist Church and parsonage, Freewill Baptist Church and A. J. Colliers' residence.

Ga., Decatur—Dan O. Neal's residence; loss \$25,000.

Ga., Sparta—Dormitory of Tenth District Agricultural and Mechanical School.

Ga., Young Harris—Peel Hall at Young Harris College, Dr. J. A. Sharp, Pres.; loss \$75,000.

Ky., Jeffersonville—The Log Cabin Roadhouse on State Highway No. 31, 3 mi. from Jeffersonville, owned by Claude N. and R. D. Williams; loss \$130,000.

Ky., Louisville—River Valley Club on River Road near Woodside Station, John Marshall, Jr., Pres.; loss \$17,500.

La., Cotton Valley—Gas tank of Magnolia Petroleum Co., Magnolia Bldg., Dallas, Tex.; loss \$10,000.

La., New Orleans—Vacant dwelling, 7819 St. Charles Ave., owned by Walter Cook Neenan, 200 Audubon St.; loss \$30,000.

La., Oakdale—Tom Anding's residence, Pine Grove section.

Md., Catonsville, Baltimore—Chas. Lewis's residence.

Md., Woodlawn, Baltimore—Mrs. Elva D. Ridgely's residence, Hillside Drive, owned by C. Frank Emmart, Gwynn Oak Ave, Woodlawn.

Mo., Fulton—Fulton Hotel, owned by Mrs. R. R. Cone, Garden City, Kan.; loss \$38,000.

Mo., Kansas City—Holland House, 1333 Central St., owned by West Side Investment Co.; loss \$30,000.

Mo., Kansas City—Drug store, 5020 St. John Ave., E. M. Denzel, Prop.; loss \$10,000.

Mo., Rivermines—Conveyor house, etc., of Doe Run Div. of St. Joseph Lead Co.; loss \$30,000.

N. C., Mebane—Majestic Theater, owned by John M. Coble, Burlington; Mebane Motor Co.'s building, owned by Parks Alexander, Durham; loss \$30,000.

N. C., Mount Airy—Joe Wright's mill on Fish River.

N. C., Wilson—City Hall, loss \$100,000, Address City Council.

Okla., Shawnee—G. G. Parkin's hatcheries; loss \$100,000.

S. C., Chester—Spratt Clowney's residence, Salem Church section.

S. C., Windsor—Windsor Consolidated School; loss \$40,000; A. L. Brodie, Aiken

County Supt. of Education, Aiken.

Tenn., Chattanooga—Hamilton County Lumber Co.'s office.

Tenn., Cleveland—Stivers Milling Co.'s plant; loss \$60,000.

Tenn., Collingwood—Highland Inn; owned by Wayne Co.; loss \$10,000; Newton Reeves' 2 stores; A. D. Gentry's 2 buildings.

Tenn., Hornsby—Building occupied by Sunlight Produce Co.; building occupied as storage room for potatoes by John McCarter, and hotel; W. M. Sain, owner.

Tenn., Jackson—Second Baptist Church, Hayes and Prevon Sts., Rev. W. P. Reeves, Pastor; loss \$75,000.

Tenn., Knoxville—Church of God, Colored, Rev. J. L. Rucker, Pastor; loss \$6000 to \$10,000.

Tenn., Nashville—Omar Jordan's residence, Valley Vista Rd., Bellwood; loss \$8000.

Tenn., Tullahoma—Dr. J. H. Graham's residence, E. Lincoln St.

Tex., Carrollton—Carrollton Gin; loss \$20,000.

Tex., Corsicana—Luther A. Johnson's residence.

Tex., Dallas—No. 1 hangar, Love Field; storage building of Dallas Aviation School; loss \$30,000.

Tex., Houston—J. H. Bohmfalk's residence, Bellaire Blvd. near First St.; loss \$10,000 to \$15,000.

Tex., Kerens—Scott's Cafe; Mabrey Hardware Co.'s store; Kamen Dry Goods Store; McClung Grocery Store.

Tex., Nacogdoches—Grist mill, operated by Dan McKnight, and market operated by Ford Hale, both owned by V. E. Simpson.

Tex., Overton—Buildings owned by W. F. Neal and Mrs. Lou Price; loss \$35,000.

Tex., Perrin—Buildings of Mullineux Brothers, F. Freeman and Louis Perrin; loss \$20,000.

Tex., Prairie Hill—W. H. Lehrmann's general store, 8 mi. north of Brenham.

Va., Staunton—Steam plant, Western State Hospital, Dr. Jos. S. DeJarnette, Supt.

Va., Stony Creek—Post Office and other bldg.; loss \$40,000.

W. Va., Bayard—Culpepper Mine of Emmons Coal Mining Co., Packard Bldg., Philadelphia, Pa.; loss approx. \$100,000, including foreman's office, car shops, motor barn, mine office, blacksmith shop and supply house, motors, mining machines, etc.

W. Va., Devon, Okeefe—Devon Hotel and adjoining store; loss \$25,000.

W. Va., Lost City—John Meyers' residence near Lost City.

W. Va., Raleigh—Raleigh Coal and Coke Co.'s store; Ernest Chilson, Gen. Mgr.; loss \$30,000.

W. Va., Whitesville—Junior High School; loss \$25,000.

# BUILDING NEWS

## BUILDINGS PROPOSED

### Association and Fraternal

Ala., Piedmont—Savage Post No. 98, American Legion, Thos. B. Turk, Chmn., Bldg. Comm., plans clubhouse; Harry Dempsey to draw plans and supervise construction.

D. C. Washington—American Red Cross; \$600,000 office bldg.; Trowbridge & Livingston, Archts., 527 Fifth Ave., New York, advise plans temporarily held up. 2-7

Md., Baltimore—Scottish Rite Holding Co., J. Edw. Richardson, Pres., 3800 Charles St. Ave., is taking sub-bids until Dec. 21, through Price Construction Co., Maryland Trust Bldg., to erect \$1,000,000 temple, Charles St. Ave. and 39th St.; limestone, 4 stories; Clyde N. & Nelson Friz, Archts., Lexington Bldg.; Chas. L. Reeder, Mech. Engr., 918 N. Charles St.; C. H. Osborne, Struct. Engr., 222 W. Franklin St. 9-19

Mo., West Palm—Ancient Free and Accepted Masons plan temple.

Tex., Corpus Christi—Ernest H. Gragg Post No. 81, American Legion, Barry Orr, Chmn., Bldg. Comm., will select architect for log cabin type clubhouse; 40x60-ft. hall, collapsible stage.

### Bank and Office

Ark., Hot Springs National Park—L. V. Freeman, care Freeman Lumber Co., erect \$50,000 office and apartment bldg., Ouachita Ave.; brick and conc., 2 stories, about 50x140 ft.

Ark., Mammoth Springs—Citizens Bank advises probably wait until Spring to rebuild burned structure. 12-5

Ga., Atlanta—Citizens & Southern National Bank, Savannah and Atlanta, Mills B. Lane, Pres., absorbed Atlanta Trust Co.; remodel and erect addition to Atlanta Trust Bldg.; tentative plans call for business firms on ground floor and banking quarters on second floor; addition probably 14 stories.

La., Shreveport—Commercial National Bank remodel banking quarters; plans additional office bldg. when conditions justify.

La., Shreveport—Edson Realty Co., Beaumont, Tex., reported, has plans nearing completion for \$150,000 office bldg., 616 Edwards St.; fireproof, brick, stone and rein. conc., 5 stories and basement, struct. steel, gas steam heat; Tisdale, Stone & Pinson, Archts., Goodhue Bldg., Beaumont and Ind. Life Bldg., Nashville, Tenn.



Mo., Kansas City—A. L. Gustin, 1412 W. 12th St., reported, considers erecting 2 additional stories to 5-story store and office bldg., 1509 Baltimore Ave.

Mo., St. Louis—Mississippi Valley Merchants State Trust Co., J. A. Rouveyrol, Asst. Vice-Pres., advises Mauran, Russell & Crowell, Chemical Bldg., are architects for remodeling banking rooms, Broadway and Olive St.; \$200,000; Missouri State Life Insurance Co., J. G. Driscoll, Asst. Sec., advises has not definitely decided upon remodeling property adjoining above building. 12-5

Mo., St. Louis—Income Leasehold Co., John M. Robertson, Pres., owner of Pierce Bldg.; Theo. M. Wall, Mgr. of Pierce Bldg., advises plans for 40-story office bldg., Fourth and Olive Sts., probably not go forward for some time; Evans & Young, Archts. 7-4

Mo., St. Louis—Willson Realty Co., 712 Chestnut St., complete De Soto Hotel, Eighth and Market Sts., for office bldg.; conc. frame up to 6 stories; to be 10 stories, foundation will carry 15 stories; plans by J. T. Craven Engineering Co., Century Bldg.

Tex., Tyler—State Highway Dept., Austin, will let contract at \$13,702 to Campbell & White, Tyler, for office bldg. for Tyler Div.; brick, 2 stories, 43x45 ft.

### Churches

Ark., Star City — Presbyterian Church plans 1-story brick and stucco building.

Fla., Jacksonville—Riverside Park Methodist Church erect brick church; conc. footings; plans about ready; also erect Sunday school, bids Dec. 10; Mark & Sheftall, Archts., Clark Bldg.; following contractors estimating on Sunday school: H. S. Baird, Atlantic Natl. Bk. Bldg.; O. P. Woodcock, Duval Bldg.; W. T. Hadlow, 32 W. Forsyth St.; Geo. Hessler, 111 W. Ashley St.; J. M. Clayton, Hildebrandt Bldg.; Arthur F. Perry, Jr., Blsbee Bldg.; A. L. Clayton, Blum Bldg. 11-8-28

Ga., Midville—Baptist Church, Rev. H. F. Chambless, Pastor, remodel bldg.

La., Ruston — Trinity Methodist Church plans \$150,000 church.

La., St. James—St. James R. C. Church receives bids until Dec. 17 at office Emile Well, Inc., Archt., Whitney Bldg., New Orleans, for brick and stone trim bldg.; 1 story, rein. conc. foundation, wood floors, following contractors estimating: Gervais F. Favrot, Rulter Bldg.; Lionel F. Favret, Louisiana Bldg.; J. A. Haase, Jr., 916 Union St.; J. V. & R. T. Burkes, Inc., Amer. Bk. Bldg.; J. A. Petty & Sons, Inc., Godchaux Bldg., all New Orleans.

Miss., Belmont—Belmont Baptist Church completed excavation for \$20,000 bldg.; conc. basement, brick veneer, 1 and 2 stories, 60x98 ft., pine floors, asbestos roof; C. G. Murf, Archt., Tupelo; Chas. Busey, Engr., Plantersville. See Want Section—Building Material and Equipment. 12-5

Miss., Gillsburg, R. D. from Osyka—Baptist Church, Rev. S. W. Spoles, Pastor, erect building.

Miss., University—North Mississippi Annual Methodist Conference erect \$100,000 church at University of Mississippi. (Lately noted under Miss., Cornith) 11-14

Md., Crisfield—Mt. Pleasant M. P. Church, Rev. J. L. Nichols, in charge, considers erecting \$50,000 Sunday school, Main St.; brick, 2 stories.

Mo., St. Louis—Berean Seventh Day Adventist Church, care A. Ellicock Realty Co., 815 Chestnut St., erect \$17,000 bldg., Sarah and Cook Sts.; brick, 1 story; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—Hope Lutheran Church, Rev. Elfred L. Raschke, Pastor, 5222 Neosho St., completed sketches for \$75,000 brick Sunday school; Theo. Steinmeyer & Son, Archts., 711 Intl. Life Bldg.

Okla., Boise City—Methodist Church, Rev. Alvin McMurray, Pastor, plans \$25,000 bldg.; brick, stone trim, oak and cement floors, comp. shingle roof; Smith & English, Archts., Hutchinson, Kan.

Okla., Tulsa—Temple Baptist Church, Rev. J. T. Early, Pastor, plans \$50,000 bldg., 12th St. and Jamestown Ave.

S. C., Spartanburg — Calvary Baptist Church, Rev. C. E. Vermillion, Pastor, plans building.

Tenn., Jackson—Second Baptist Church, Dr. W. P. Reeves, Pastor, rebuild structure burned at \$75,000 loss.

Tex., Georgetown—First Methodist Church, M. L. Williams, member, receives bids Dec. 13 for stone and conc. Sunday school; 2 stories and basement, oak floors, built-up roof; Wm. C. Meador, Archt., Dan Waggoner Bldg., Fort Worth. 10-24

Tex., Madisonville—Baptist Church, J. A. Knight, member, Bldg. Comm., plans \$35,000 brick building.

Tex., Mexia—Rev. J. W. Cochran, Pastor, Presbyterian Church, Groesbeck, interested in erection of tabernacle.

Va., Richmond — Centenary Methodist Church receives bids until Dec. 31 for Sunday school addition; \$75,000, Gothic type, fireproof, brick, 3 stories, wood and comp. floors, comp. roof; Chas. M. Robinson C. Archt., Times-Dispatch Bldg. 10-17

### City and County

Ark., Fort Smith—City defeated \$25,000 fire station bonds. 8-29

Ark., Little Rock—City Council, Horace A. Knowlton, City Clk., erect fire station, Ninth Ward; also fire station, Seventh Ward; bonds available.

La., Donaldsonville — Ascension Parish Police Jury, E. J. Waguespack, Pres., remodel jail; Elray Kocke to prepare plans.

La., New Orleans—City Comsn. Council has low bid at \$19,976 from J. A. Petty & Sons, Inc., Godchaux Bldg., for fire station, Tulane Ave.; plans by A. C. Montz, City Archt. 11-28

Md., Rockville—Montgomery County Bd. of Commrs. have plans ready for bids about Jan. 15 for courthouse; \$400,000, exclusive of furnishings; Indiana or Alabama limestone, fireproof, 272 ft. long including 46x75-ft. end wings, 5 stories, including double top story for jail, 30 cells at present, ultimately accommodate about 100 prisoners, jail elevators, finger print room, 2 public elevators, vapor heat, number of fireproof doors, steel furniture and filing cases where practicable; Russell Edward Mitchell, Archt.-Engr., Barr Bldg.; Smith & Edwards, Conslt. Archts., 1207 First St., N. W., both Washington, D. C. 12-5

Miss., Greenville—Washington County Bd. of Supvrs. will open bids about Feb. 1 for alterations and additions to courthouse; fireproof annex, brick and conc.; \$85,000; J. M. Spain, Archt., Millsaps Bldg., Jackson. See Want Section—Building Material and Equipment. 11-21

Miss., Jackson—Following contractors estimating on \$850,000 Hinds County courthouse, bids Dec. 20 by Board of Supvrs.: O. M. Gwin Construction Co., Union Indemnity Bldg.; R. P. Farnsworth & Co., Maritime Bldg., both New Orleans, La.; W. J. McGee & Sons, Lamar Bldg.; Wetmore Construction Co., Lampton Bldg.; Garber & Lewis, Amite St., all Jackson; C. G. Kershaw Contracting Co., Woodward Bldg., Birmingham, Ala.; Estes-Williams Construction Co., Derman Bldg.; S. & W. Construction Co., Shrine Bldg.; B. E. Buffalo Construction Co., 658 East St., all Memphis, Tenn.; Southern Ferro Concrete Construction Co., 70 Ellis St., N. E.; National Construction Co., Glenn Bldg., both Atlanta, Ga.; Bellows-MacLay Construction Co., Construction Industries Bldg., Dallas, Tex.; W. P. Ross Co., Goldsboro, N. C.; J. H. Leveck & Sons, Glover Bldg., Little Rock, Ark.; Angle-Blackford Co., Amer. Exch. Bk. Bldg., Greensboro, N. C.; Ashton Glassell Co., 819 Oneonta St., Shreveport, La.; Foster & Creighton Co., Birmingham; Claude H. Lindsley, Archt., Edwards Hotel Bldg., Jackson; Gardner & Howe, Struct. Engrs., Porter Bldg., Memphis; C. A. Peerman, Mech. Engr., Birmingham. 12-5

North Carolina—County Commrs. of Currituck, Camden, Perquimans and Pasquotank counties plan district jail; Chowan County yet to approve project; Currituck is county seat of Currituck County.

N. C., Wilson—City Bd. of Aldermen plans city hall to replace structure burned at \$100,000 loss.

Okla., Tulsa—Chamber of Commerce submitted recommendation to Mayor and City Comsn. that election be called Dec. 31 on \$7,658,561 bonds, including \$475,000 for fire dept. and fire dept. signal system, \$75,000 for municipal hospital, \$1,000,000 for convention hall and auditorium, \$50,000 for addition to city court bldg., \$100,000 for municipal bldg. in negro section, \$20,000 for 2 police sub-stations and \$595,000 for central library and branches. 11-21

Tenn., Nashville—City, S. H. McKay, City Clk., remodel fire station, 12th Ave. and Jefferson St.; brick and conc., 2 stories; McKissick & McKissick, Archts., Morris Bldg.; bids rejected.

Tex., Hemphill — Sabine County Bd. of Commrs. remodel courthouse; bids Dec. 20 on general constr. and on sub-contracts; T. S. Maffitt, Archt., Palestine.

Tex., Jacksonville — City, T. E. Acker, Mayor, soon start work on \$100,000 city hall. 7-6

Tex., LaPorte—City voted \$10,000 city hall and fire station bonds.

Tex., Lockney—City votes Dec. 17 on \$40,000 municipal auditorium-community center bonds. Address City Council.

Va., Bedford — Bedford County Bd. of Supvrs., S. H. Saunders, Chmn., receives bids Dec. 20 for courthouse; \$200,000; separate bids for heating and plumbing; C. H. Hinnant, Archt.; Wiley & Wilson, Engrs., both Peoples Natl. Bk. Bldg., Lynchburg; following contractors estimating: Overstreet & Overstreet; Paul Overstreet, both Bedford; D. J. Phipps, Boxley Bldg.; H. A. Lucas; John F. Barbour, both Colonial Natl. Bk. Bldg., all Roanoke; Fred B. Fuqua, Krise Bldg.; J. H. Coleman, 2001 Grace Bldg.; W. K. Barger, Peoples Natl. Bk. Bldg.; W. T. Jones & Co., 212 16th St.; Hamilton Bros., Lynchburg Bldg., all Lynchburg; J. C. Curtis, Denbigh; Mottley Construction Co.; Farmville Manufacturing Co.; H. B. Thurston & Co., all Farmville. See Want Section—Building and Equipment. 6-6

### Dwellings

Ala., Birmingham — R. L. Bowron, 1827 Pike Ave., has low bid at \$35,000 from Paramount Construction Co., 2026 N. Fourth Ave., for residence, Rockridge Park; Turner & Slater, Archts., Martin Bldg.

Fla., Arcadia—Dr. J. J. Martin, Pastor, Presbyterian Church, will not call for bids before Feb. or March for \$12,000 residence; brick, 2 stories, 43x32 ft., 2 baths, lavatory, tile roof; J. C. Harris, Archt. 11-28

Fla., Lake Wales—S. P. Bush, Columbus, O., erect \$80,000 residence, Mountain Lake; hollow tile and stucco, 2 stories, 174x119 ft.; R. G. Hanford, Archt., 30 N. Washington Ave., Columbus, O.; work probably start early in 1930.

Fla., Miami—Equitable Finance & Realty Co. erect \$25,000 dwelling and garage, 19th Ave. and Tenth St., S. W.; rein. conc., conc. block, stucco; tile floors, baths and roof, steel sash; Frank Wyatt Woods, Archt., Ingraham Bldg.; bids in.

Ga., Atlanta—Jas. W. Morrow, Jr., 2181 Peachtree Rd., N. E., repair burned residence; \$30,000; stone and half-timber, 2 stories and basement, slate roof; soon select architect.

Ga., Atlanta—LeRoy E. Rogers, Candler Bldg., erect \$35,000 residence, Club Drive, Brookhaven; stone, 2 stories and basement, hardwood, tile and stone floors, conc. footings, slate and comp. roof, steam heat; Burge & Stevens, Archts., 101 Marietta Bldg.; plans ready about Dec. 28.

Ga., Augusta—J. Lee Etheredge, Vice-Pres., Georgia Railroad Bank, erect \$20,000 residence, Hillcrest Ave. and Belmont Drive; National Engineering & Construction Corp., Contr., Masonic Bldg.

Ga., Macon—Horace Wright, 587 College St., purchased 50-acre tract, Ayers Rd. near Forsyth Rd.; improve for country home.

La., Monroe—Burton Bank, Coral Gables, Miami, Fla., care Cummins, Inc., Ouachita Bk. Bldg., Monroe, plans subdivision; erect cement block and stucco Spanish type dwellings.

La., New Orleans—Frank S. Costley, Jr., purchased dwelling, 1212 Webster St.; improve.

La., New Orleans—M. Sazer, 2017 Chestnut St., erect 2 single dwellings and garages, 3712-3728 Vincennes Place; \$10,000.

Md., Baltimore—Fredk. L. Jacobs, 2747 Washington Blvd., plans several dwellings, 1903-19 Letetia Ave.

Md., Chestertown—Eugene E. du Pont, Wilmington, Del., purchased "Napley," estate in Kent County; convert dwelling into Colonial type bldg.

Miss., Clarksdale—E. J. Mullens, Jr., erect \$45,000 Colonial residence, W. Second St.; pipe organ; Polk W. Agee, Archt., Fidelity Bank Bldg., Memphis, Tenn.

Miss., Highlands—Mrs. D. S. Jones considers rebuilding residence lately noted destroyed by fire at \$100,000 loss.

Miss., Lulu—E. M. Mothershed, Pres., Big Three Lumber Co., plans residence; also considers erecting other buildings.

Miss., Poplarville — Gov. Theo. Gilmore Bilbo, Jackson, reported, plans residence.

Mo., Kansas City — H. A. Stonebraker, Archt., Balcony Bldg., drawing final plans for \$25,000 dwelling, Nall Rd.; frame, 2 stories.

Mo., St. Louis—C. A. Shaw, care Shaw & Francis, 1010 Olive St., considers erecting brick residence, Lake Forest sub-division, Richmond Heights.

N. C., Forest City—Ellenboro Manufacturing Co., Ellenboro, erect number operatives' dwellings, connection with construction of new textile plant.

N. C., Raleigh—Julian Rand, 6 Ferndell Lane, erect \$20,000 residence; brick, 2 stories and basement, hardwood and tile floors, stone trim, slate roof; drawing plans.

N. C., Raleigh—C. H. Stephenson, 1410 Hillsboro St., erect \$25,000 residence; brick, stone trim, 2 stories and basement, hardwood and tile floors, misc. iron, tile roof; drawing plans.

Okl., Bartlesville—John H. Kaur erect brick, stone and frame residence; 2 and 3 stories; Edw. Buehler Delk, Archt., Meyer Blvd. & Ward Parkway, Kansas City, Mo.; contract in few days.

Okl., Tulsa—Herbert B. Smith, Sinclair Bldg., \$35,000 residence; Donald McCormick, Archt., Atlas Bldg., advises project postponed until Spring; structure stone, 2 stories and basement, 30x40 ft. and 30x60 ft., L shape, oak floors, conc. foundation, slate roof, wood studs. 11-28

Tex., Edinburg—R. A. Porter erect \$15,000 Spanish type residence; hollow tile and stucco; R. Newell Waters, Archt., Weslaco.

Tex., El Paso—J. R. McKennon, owner, Auto Market, 3614 Alameda Ave., erect 36 two-room cottages; \$35,000.

Tex., El Paso—J. M. Armstader erect \$13,000 duplex, Park Rd.; 2 stories.

Tex., El Paso—Herbert W. Gehring & Co., Caples Bldg., erect 5 dwellings, 2000 block, N. Copia St. and 3243-47 Aurora St.; \$25,000.

Tex., San Antonio—E. R. Holland, care H. B. Thomson, Archt., Alamo Bk. Bldg., erect hollow tile and conc. residence, Contour Drive, Olmos Park; 2 stories; plans about ready, bids by invitation.

Tex., Terrell—Mrs. W. H. Petty erect residence; J. G. Wells, Archt., 519 Morgan St., Corpus Christi.

Tex., Weslaco—R. W. Rockwell erect \$17,500 Spanish type residence; hollow tile and stucco, 1 story, tile floors and roof, 10 rooms; R. Newell Waters, Archt.

### Government and State

D. C., Washington—Treasury Dept., office of Supvg. Archt., advises no definite information can yet be furnished on proposed National Archives bldg.; \$2,000,000. 11-18-26

D. C., Washington—Constructing Quartermaster, Bolling Field, has \$240,000 appropriation available for barracks.

D. C., Washington—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., has low bid at \$74,400 from Howard P. Foley Co., Inc., 1020 I St., N. W., for fire alarm system for \$10,000,000 Bureau of Internal Revenue building.

Fla., Tallahassee—Additional contractors estimating on alterations to lobby and relocation of work room screens, etc., post office and courthouse, bids Dec. 18 by Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C.; Highbridge-International Co., Morris Heights Station; S. Acunto & Co., Inc., 110 E. 42nd St., both New York; W. J. McEwan, Magnolia Heights, Tallahassee; C. E. Kellogg Co., 1829 N. May St., Joliet, Ill.; English Construction Co., 1311 H St., N. W., Washington; Edw. S. Moore & Son, Times Bldg., St. Petersburg, Fla.; Wm. MacDonald Construction Co., Synd. Tr. Bldg., St. Louis, Mo. 12-5

Ga., Fort Benning—Constructing Quartermaster, Lieut. W. M. Allison, probably have plans ready about Jan. 15 for 4 field officers' quarters, 22 company officers' quarters and 18 non-commissioned officers' quarters; conc., brick and tile; \$600,000.

Md., Baltimore—Following contractors estimating on \$3,000,000 post office (except elevators) bids Jan. 6 by Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C.; Ralph Sollitt & Sons Construction Co., Builders Bldg., 228 N. LaSalle St.; N. P. Severin Co., 222 W. Adams St., both Chicago, Ill.; Aronberg-Field Co., Inc., 21 S. 40th St.; Columbia Construction Co., 2 Lafayette St.; Agostini Bros., 205 E. 42nd St.; Pierce Steel Pile Corp., 52 Vanderbilt Ave.; James Stewart & Co., Inc., New York Central Bldg., all New York; Seglin Construction Co., Inc., Eutaw and Franklin Sts.; Consolidated Engineering Co., Inc., 20 E. Franklin St., all Baltimore; Van Asdlen Construction Co., Inc., 1600 Arch St., Philadelphia, Pa.; Davis-Wick-Rosengarten Co., Dist. Natl. Bk. Bldg.; M. A. Long Co., Albee Bldg.; Geo. A. Fuller Co., Munsey Bldg.; Wardman Corp., 1437 K St., N. W.; English Construction Co., 1311 H St., N. W., all Washington; Algernon Blair, First Natl. Bank Bldg., Montgomery, Ala.; Murch Bros. Construction Co., Rwy. Exch. Bldg., St. Louis, Mo.; John Gill & Sons, Bulkley Bldg., Cleveland, O. 11-28

S. C., Rock Hill—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., will purchase site for post office.

Tenn., McMinnville—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., opens bids Jan. 8 for post office; drawings from office Supvg. Archt.; \$65,000 available.

Texas—State Bd. of Control, R. B. Walthall, Chmn., Austin, plans following expenditures during 1930: Repairs to prison system, \$20,000; \$23,000 for repairs and improvements, Confederate Veterans' Home; \$11,500 for living quarters and elevator, Confederate Women's Home; State Orphans' Home, general repairs and remodeling \$45,000, power plant improvements \$40,000, dairy barn and equipment \$20,000 and hospital bldg. repairs and walks \$9000.

Tex., Lockney—Carl McAdams, 9 W. Locust St., erect bldg., to be leased to Government for post office; brick, 30x58 ft., new fixtures.

Tex., Mexia—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., purchased site for \$100,000 post office. 4-4

Va., Alexandria—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., reported, start work in Spring on post office.

Va., Arlington—Navy Dept., Bureau of Yards and Docks, Washington, D. C., receiving bids, date not determined, for quarters at Naval Radio Station; following contractors estimating: H. Herfurth, Jr., Inc., 609 Dist. Natl. Bk. Bldg.; Behen & Wright, 916 Rhode Island Ave., N. E.; Martin Bros., 1341 Connecticut Ave., N. W.; McCoy & Langstroth, 2300 L St., N. W., all Washington.

W. Va., Charleston—Capitol Building Comsn., Bonner H. Hill, Sec., advises expects to be ready for bids for \$5,000,000 main unit of State Capitol about Feb. or March; stone, 536x106 ft., 72 ft. high, dome 266 ft. high, rotunda 80 ft. in diameter, two wings 60x94 ft., 1 story, contain about 6,000,000 cu. ft.; Cass Gilbert, Archt., 244 Madison Ave., New York. 11-7

### Hospitals, Sanitariums, Etc.

D. C., Washington—Constructing Quartermaster, Army Medical Center, advises may be several months before plans are received for \$100,000 chapel, Walter Reed General Hospital. 4-4

Ky., Lexington—United States Veterans' Bureau, Constr. Div., Room 764, Arlington Bldg., Washington, D. C., opens bids Jan. 14 for construction of bldgs. and utilities, including roads, walks and drainage for U. S. Veterans' Hospital; \$1,500,000; work includes excavation, rein. conc. constr., hollow tile, brick work, limestone, architectural terra cotta, marble work, floor and wall tile, rubber tile and linoleum floors, iron work, steel flag pole, steel sash, steel stairs with slate treads, metal stall partitions, slate, metal and built-up roof, roof ventilators, skylights, metal lath, plastering, sound deadening, dumb waiter, carpentry, platform scales, metal weatherstrips, insect screens, window shades, painting, glazing, boiler plant, incinerator, steel water tank and outside sewer, water, gas, steam and elect. distribution systems; separate bids for general constr., including plumbing, heating and elect. work and oil burning equipment; elect. elevators; refrigerating and ice making plant; steel water tank and tower and radial brick chimney; 250 beds, personal quarters; drawings from Constr. Division. 1-24-29

La., Alexandria—United States Veterans' Bureau, Room 764, Arlington Bldg., Washington, D. C., receives bids until Dec. 31 for fence and gates, U. S. Veterans Hospital; drawings from Constr. Div., Room 764, or from Medical Officer in Charge at site.

La., New Orleans—Orleans Anti-Tuberculosis Society erect \$50,000 to \$60,000 hospital, Myrtle Dale; date of opening bids not determined; frame and stucco, 1 story, 300x170 ft., comp. floors, conc. foundation, asbestos shingle roof; furnishings, equipment, etc., \$8000; M. B. DePass, Archt.-Engr., 926 Pauline St. Address Owner, care Archt. See Want Section—Building Material and Equipment. 12-5

La., New Orleans—City Council sold Isolation Hospital; erect new \$60,000 hospital.

Md., Catonsville, Baltimore—Spring Grove State Hospital for Insane, Dr. Robt. E. Garrett, Supt., opens new bids Dec. 19 for \$400,000 ward bldg.; stone, T shape, 300x110x52 ft., 2 stories, rein. conc. floors, steel sash, slate roof; Henry Powell Hopkins and Allan T. Burton, Archts., 347 N. Charles St.; Jas. Posey, Mech. Engr., 201 W. Franklin St.,

all Baltimore; following contractors estimating: Henry L. Maas & Sons, Inc., 1119 Ensor St.; Price Construction Co., Maryland Tr. Bldg.; M. A. Long Co., 10 W. Chase St.; David M. Andrew Co., Sisson and 26th Sts.; Cogswell-Koether Co., 406 Park Ave.; P. C. Streett Engineering Co., 404 St. Paul St.; Davis Construction Co., 9 W. Chase St.; North-Eastern Construction Co., 6 W. Madison St.; Chas. L. Stockhausen Co., Inc., Gay and Water Sts.; Edward G. Turner, 2133 Maryland Ave.; Thos. Hicks & Sons, Inc., 106 W. Madison St.; Consolidated Engineering Co., 20 E. Franklin St.; all Baltimore; National Construction Co., 1603 Navy Bldg., Washington, D. C. 12-5

N. C., Raleigh—Tucker Carson Sanatorium erect \$37,000 bldg.; brick, 2 stories and basement, tile floors; bids Dec. 12.

N. C., Spruce Pine—Town raising \$35,000 toward erection of hospital; \$35,000 donated. Address Town Council.

Okl., Ada—Ada Hospital, Miss Eugenia Davis, owner, has plans completed for 30-bed addition.

Tenn., Memphis—Baptist Memorial Hospital addition; Geo. Awsumb, Archt., Dermon Bldg., advises project postponed at least 6 months. 12-5

Texas—State Bd. of Control, R. B. Walthall, Chmn., Austin, plans following expenditures during 1930: Abilene State Hospital, \$50,000 dormitory, \$25,000 for employees' dormitory and occupational therapy school, \$10,000 repairs and \$29,302 for sewer line; Austin State Hospital, \$60,000 repairs and \$70,000 for 2 dormitory wings; San Antonio State Hospital, \$50,000 general repairs; Terrell State Hospital, \$448,000 for repairs and power plant improvements, \$40,000 for conc. flooring and \$125,000 for ward bldg.; State Tuberculosis Sanatorium, \$15,000 general repairs, \$25,000 warehouse and storeroom, \$5000 for water extensions, \$100,000 dormitory and \$100,000 children's bldg.; Wichita Falls State Hospital, \$17,500 for repairs and improvements, \$40,000 for hospital and equipment, \$50,000 storeroom and dormitory, \$250,000 for 2 ward bldgs, \$7500 for water works and \$1000 for roads and drives; Rusk State Hospital, \$5000 ice plant and cold storage, \$35,000 for general repairs and remodeling, \$20,300 for new roofs, \$15,000 for additional story to tubercular cottage, \$170,000 for 2 dormitories and \$9000 for well; also \$20,000 additional for general repairs at State hospitals; J. D. Hall, State Budget Director.

Tex., Abilene—State Bd. of Control, R. B. Walthall, Chmn., Austin, receives until Dec. 17 for fireproof occupational therapy and employees' dormitory, Abilene State Hospital; 2 stories, \$25,000; separate bids on plumbing, heating and elect. work; plans from David S. Castle Co., Archts.-Engrs., Abilene.

Tex., Austin—State Bd. of Control, R. B. Walthall, Chmn., Austin, opens bids Dec. 17 for hospital, State Colony for Epileptics; \$25,000.

Tex., Tyler—Smith County, Will B. Pace, County Judge, defeated \$200,000 hospital bonds. 10-31

### Hotels and Apartments

Ala., Mobile—Hilton Hotel Co., C. N. Hilton, 1933 Main St., Dallas, Tex., reported, has plans by Anton Korn, Jr., Thomas Bldg., Dallas, for \$1,000,000, 19-story, 300-room hotel. 8-29

Ark., Eureka Springs—Basin Park Hotel, A. G. Ingalls, expend \$25,000 for improvements.

D. C., Washington—Penn Daw Hotels Corp., S. C. Dawson, Albee Bldg., reported, erect 1-story, brick bungalow apartments; \$100,000.

D. C., Washington—C. West, Archt., 1341 Connecticut Ave., N. W., prepared plans for 5-story, brick, 24-apartment, 11th and V Sts.

D. C., Washington—The Willard, Inc., F. S. High, Inc., 14th St. and Pennsylvania Ave., install certain cabinets, counters and show cases in main lobby of Willard Hotel; W. I. Deming, Archt., 808 Seventeenth St.; bids in. 11-28

Fla., Babson Park—A. J. Forbes, care Middleton Worthing Co., Bulkley Bldg., Cleveland, O., erect hotel on Crooked Lake, Hillcrest Lodge, to replace burned structure; \$40,000, stucco on hollow tile, pine floors, comp. roof.

Fla., St. Petersburg—Edgar Ferndon, Archt., Sumner Bldg., advises he is not preparing plans for hotel at St. Petersburg, as recently reported. 11-28

La., New Orleans—United Hotels Co., F. A. Dudley, Pres., Niagara Falls, N. Y., pur-



chased Roosevelt Hotel and expend \$250,000 for improvements.

Md., Salisbury—Camden Apartment, Inc., J. Y. Gunby, Gunby Motor Co., S. Division St., erect \$25,000, 3-story, brick, 8-apartment Light St.

Md., Snow Hill—W. C. Cullen, Pocomoke City, does not plan addition to Mansion House as reported. 12-5

Miss., Greenwood—Weiner Hotel ready for bids in about 3 weeks for \$125,000, 73x90x120 ft., brick, stone trim and fireproof, 60-room addition; also remodel hotel; Hull & Malvaney, Archts., Merchants Bank & Trust Bldg., Jackson. 8-1

Miss., Grenada—John L. Ware, Mgr., Edwards Hotel, Jackson, and Claude H. Lindsley, Archt., Edwards Hotel Bldg., Jackson, reported, interested in erecting 80-room fireproof hotel.

Okla., Oklahoma City—Randell S. Cobb, 419 E. 10th St., has permit for \$12,000 brick apartment, 417 E. 10th St.

Tex., Brownwood—Hotel Brownwood, Inc., Roy H. Morris, and Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg., Fort Worth, has permit for \$350,000, 12-story, 216-room hotel, Baker and Fisk Sts.; brick, stone, steel and rein. conc. 11-28

Va., Luray—H. B. Mims Hotel Co., Inc., erect 3-story, 190x50-ft., stone and brick, Colonial type hotel; tile roof, recreation room, laundry and store in basement; 2 private dining rooms, kitchen, service pantries, lounge and number of bedrooms and main dining room on first floor; entire second floor and most of third floor for bedrooms, each with private bath; solarium and roof garden on south wing of third floor; remodel both exterior and interior of Mansion Inn; porches to be replaced with balconies, stucco exterior; extend lobby, provide sun lounge, lobby, parlors, dining room, kitchen and 50 bedrooms to be refurnished; also restore Borst residence on property and use for recreation purposes; Mims, Speake & Co., Archts., Luray; J. H. Small & Sons, 1501 Connecticut Ave., N. W., Washington, D. C., in charge of landscape work.

### Miscellaneous

Fla., Chipley—Chipley Woman's Club erect limestone buildings on N. Fifth St.

Ga., Porterdale—Bibb Manufacturing Co., L. R. Brumby, Supt., receives bids about Dec. 20 for \$100,000, 2-story and basement, 155x90 ft., rein. conc., struc. steel, brick and tile auditorium and gymnasium; stone trim, built-up roof, hardwood and cement floors, sprinkler system; Shelverton & Oliphant, Archts., Grand Bldg., Macon; following contractors estimating: Norwood Griffin Co., Bona Allen Bldg.; A. K. Adams Co., 542 Plum St. N. W.; Southern Ferro Concrete Co., 70 Ellis St. N. E., all Atlanta; Batson-Cook Co., West Point; Algernon Blair, First Natl. Bk. Bldg.; A. C. Samford, 301 Washington Ave., both Montgomery, Ala.; T. C. Thompson & Bros., 609 N. Smith St., Charlotte, N. C.; Chess W. Jones, Grand Bldg., Macon; electric work—J. M. Clayton Co., 603 Cone St. N. W.; Walker Electric Co., Bona Allen Bldg., both Atlanta; Macon Electric Co., 367 Second St.; H. E. Lowe Electric Co., 131 Cotton Ave.; plumbing—O'Pry Plumbing & Heating Co., 163 Cotton Ave., Macon; Loftis Plumbing & Heating Co., 440 Marietta St.; Farrell Plumbing & Heating Co., 248 Guy St. N. E.; Crawford & Slaten, 840 Woodrow St. S. W., all Atlanta. 7-4

La., New Orleans—National Lunch Co. of Louisiana, H. W. Fisch, Pres., remodel brick building, Poydras and S. Rampart Sts., for restaurant and bakery.

La., New Orleans—Gentilly Athletic Club erect brick building, Constitution Park Place and Painters St., to contain arena, club gymnasium and quarters.

Ky., Jeffersonville—Claude N. and R. D. Williams, 4725 3rd St., Louisville, plan to erect The Club Royal to replace Log Cabin Inn on State Highway No. 31, 3 mi. from Jeffersonville; \$25,000 to \$50,000, brick or tile.

Md., Baltimore—Hughes Company, Photographers, 265 W. Fayette St., purchased 14-room studio and home of late Miss Alice Worthington Ball, 213 W. Monument St., and remodel; complete portrait and garden studios; C. M. Anderson, Archt., 9 E. Pleasant St.

Md., Potomac—Maryland Club, E. Roy Lewis, 1919 Nineteenth St., N. W., Washington, D. C., erect \$20,000, 1½-story, frame clubhouse; A. L. Aubinoe, Archt., 911 Thirtieth St., N. W., Washington.

Mo., Kansas City—Evans Home for Children, 520 Woodland Ave., plans \$100,000 home; 2 stories, Georgian type.

Mo., Springfield—E. D. Levy, Pres., Peirce Petroleum Corp., 1709 Locust St., St. Louis, advises that bus station and restaurant at Springfield has been completed. 11-28

Mo., St. Louis—C. F. Stuart, 5525 Easton Ave., plans brick mortuary.

Tex., Dallas—Dallas Women's Forum, Mrs. Walter Barnes, Pres., 806 S. Akard St., plans \$50,000, 2-story, 90x135 ft., fireproof clubhouse on Live Oak St.

Tex., Houston—Bd. of Trustees, Pauline Stern Wolf Memorial Home, having plans prepared by Joseph Finger, Democratic Bldg., for administration building, another to accommodate 16 orphans and third for 13 widows; \$100,000, all 2 stories, brick. 12-5

Tex., San Antonio—Ella Austin Home, Clara H. Ellis, Chmn., 1802 Burnett St., plans \$15,000 addition; architect not selected.

### Railway Stations, Sheds, Etc.

Tex., Weslaco—St. Louis, Brownsville and Mexico Rwy. Co., Missouri Pacific Lines, C. S. Kirkpatrick, Ch. Engr., Union Station, Houston, receives bids Dec. 14 for 1-story, 66x22-ft., brick, rein. conc. and stucco passenger station; tile roof, conc. floor slab. 6-13

### Schools

Ala., Jacksonville—State Bd. of Education, A. F. Harman, Sec., Bldg. Comm., Montgomery, receives bids Dec. 20 for classroom, administration building, dormitory and central heating plant for State Teachers' College; \$375,000; separate bids on heating plant and on each of buildings; also combined bid on all three buildings; plans from Warren, Knight & Davis, Archts., Protective Bldg., Birmingham; following contractors estimating: A. J. Honeycutt Co., Martin Bldg.; Smallman Construction Co., 1109 Fifth Ave. S.; Foster & Creighton Co., Protective Life Bldg., all Birmingham; J. F. Holley Construction Co., Ensley; Harry Y. Demsey, Piedmont; James C. Blalock, care Florence Lumber Co., Florence; J. W. Chambers Lumber Co., Athens; Lee Construction Co., Lillian; Ogletree Construction Co., 11th St.; Duke Stickney Co., both Anniston; F. D. Kimbrough, Pine Hill; R. E. Sundberg Construction Co., Mobile; S. P. Clark, Gadsden; Batson-Cook Co., West Point; A. C. Samford, Algernon Blair, Hugger Bros. Construction Co. and Frost Construction Co., all Shepard Bldg., Montgomery. 9-26

Ala., Montevallo—Alabama College, E. H. Wills, Bus. Mgr., plans to start work in Jan. on \$250,000 Bibb Graves Hall; 314x60 ft., include gymnasium, swimming pool, office and classroom space, lockers and showers; 2 stories and basement, brick, limestone trim, slate roof on gypsum and steel, rein. conc. floor constr.; Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham.

Ala., University—University of Alabama, Dr. George N. Denny Pres., has plans completed for Union Memorial Building; Georgian style of architecture, Alabama limestone, brick and steel, fireproof; first floor for auditorium to seat 250 people, and dining room to seat 450; mezzanine floor to house broadcasting rooms; second floor for quarters of alumni organizations; Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham.

Ark., Burdette—Mississippi County School Bd., D. Garrett, Pres., Blytheville, erect \$20,000 Jr. High School.

Ark., Truman—School Bd. erect 1-story brick veneer, 6-classroom school.

Ga., Camilla—Camilla Consolidated School Dist., P. R. Cleveland, Chmn., voted \$115,000 bonds for 1-story and basement brick high school; Lockwood & Poundstone, Archts., Edw. F. Billie, Asso. Archt., both Marietta Bldg., Atlanta. 11-7

La., Monroe—City, Arnold Bernstein, Mayor, receives bids Dec. 31 for 1-story, rein. conc., brick and stucco grade school; 4 classrooms, built-up comp. roof; J. W. Smith & Associates, Archts., Ouachita Natl. Bk. Bldg.

Md., Baltimore—Bd. of Public Improvement Comsn., H. J. Leimbach, Supvr. Engr., plans following additional schools to be built under \$10,000,000 school loan; East Baltimore Jr. High School, Elwood Ave., Robinson, Gough and Bank Sts.; East Baltimore Jr. High School for colored, Caroline and Eden Sts.; school at Wheeler Ave. and Mosher St.; addition to School No. 113, Federal and Carter Sts.; colored elementary school on Mount St.; first unit of building for School No. 20, Eden and Federal Sts.; addition No. 34, Washington Blvd. and Carey Sts.; addition to School No. 220, Morrell Park; first unit of new building for School No. 212, Garrett Heights; first unit of School No. 50, on grounds of

City College; addition to School No. 203, Brooklyn.

Md., Rockville—Montgomery County School Commrs., E. Broome, Sec., plan \$200,000 building program during 1930; plans include \$130,000 addition to Chevy Chase Grade School, \$15,000 addition to grade schools in Alta Vista and Colesville sections and additions to Cabin John-Glen Echo and East Silver Spring schools.

Miss., Itta Bena—Itta Bena Consolidated School Dist., L. S. Rogers, Supt., having plans prepared by F. R. McGoey, Greenwood, for 1-story, rein. conc., brick, stone trim high school; 10 classrooms, study hall, laboratories, auditorium to seat 500 people; \$50,000 bonds voted. 11-21

Miss., Jackson—Bellhaven College, R. G. Kennington, Chmn., Bldg. Comm., erect \$100,000, 3-story, rein. conc., brick, stone trim dormitory; Claude H. Lindsley, Archt., Edwards Hotel Bldg.

Mo., Alton—Bd. of Education, G. P. Dorris, Pres., erect 1-story, brick addition to consolidated grade and high school; Heckenlively & Mark, Archts., Landers Bldg., Springfield.

Mo., Columbia—Stephens College, Dr. James M. Wood, Pres., plans \$500,000 expansion program to include \$200,000 dormitory, library building, and power plant.

Mo., Springfield—Bd. of Education, W. A. Barbour, Sr., Pres., ready for bids in Jan. for \$55,000 Sunshine Grade School, Jefferson and Sunshine Road; G. F. Reed, Archt., Woodruff Bldg.; W. B. Ittner, Inc., Asso. Archt., 911 Locust St., St. Louis. 10-24

Mo., St. Louis—St. Louis University, Rev. C. H. Cloud, 207 N. Grand Blvd., plans Walsh Memorial Stadium.

Mo., West Plains—Bd. of Education plans school building.

N. C., Jackson—School Bd. erect Severn School; Eric G. Flannagan, Archt., Hendersonville; bids in.

Okla., Oklahoma City—Bd. of Education, J. G. Stearley, Bus. Mgr., having sketches prepared by Layton, Hicks & Forsythe, Braniff Bldg., for \$300,000, 2-story and basement, rein. conc. Jr. High School, 38th St. 10-17

Okla., Oklahoma City—City council has called an election for Dec. 16 on \$2,150,000 school bonds; plans of Bd. of Education, R. F. J. Williams, Pres., include \$1,391,500 for elementary schools—\$1,182,050 for new buildings, \$18,000 for alterations, \$90,000 for sites, \$74,000 for equipment, \$55,500 for physical education equipment, and \$22,100 for fences; \$736,350 for junior high schools—\$565,025 for two 10-classroom buildings, one to be located west of Capitol Hill Jr. High and other northwest of Roosevelt Jr. High, \$10,500 for alterations, \$50,000 for sites, \$106,000 for equipment, \$2000 for physical education equipment, and \$2825 for fences; in senior high schools, \$9350 will be spent for alterations, \$6000 for equipment and \$6500 for physical education equipment.

S. C., Pickens—Town Creek School Dist., John W. Hendricks, Chmn., erect \$15,000, 1-story and basement, 100x87 ft., brick veneer school in Pickens Mill Community; comp. roof, steam heat; J. G. Cunningham, Archt., 201-A E. Coffee St., Greenville.

Tenn., Lebanon—Cumberland University, Dr. Ernest L. Stockton, Pres., plans several buildings.

Tenn., Johnson City—City votes March 6 on \$100,000 bonds for school building program.

Tenn., Nashville—Meharry Medical College, Dr. John L. Mallowney, Pres., plans to soon start work on proposed \$2,000,000 plant; Gordon & Kaelber, Archts., Rochester, N. Y. 2-28

Tenn., Nashville—State Bd. of Education, P. L. Harned, Commr., War Memorial Bldg., remodel Eve Hall, Medical School Bldg., University of Tennessee; \$50,000.

Texas—State Bd. of Control, Austin, plans repairs and improvements at following colleges during 1930: Agricultural and Mechanical College, College Station—water system at Station No. 18, \$9800; Station No. 19, \$6300; No. 20, \$12,000; towers for forestry division, \$2000; drives, \$3000; sidewalks and paving, \$5000; curbs and gutters, \$4000; tunnels and sewers and water mains, \$52,000; repairs at college and stations, \$4100; North Texas Junior Agricultural College—repairs and improvements, \$4200; John Tarleton Junior Agricultural College—repairs and improvements, \$26,700; heating plant addition, \$5000; farm buildings repairs, \$2000; Prairie View Normal and Industrial College, Prairie View—repairs, \$15,000; sidewalks and well, \$17,000; College of Industrial Arts, Denton—

paving, walks, repairs, \$16,000; Texas Technological College, Lubbock—walks, repairs, \$7,000; barns, well, \$15,000; heating plant addition, \$20,000; State Teachers College, Denton—improvements, \$18,500; State Teachers College, Huntsville—repairs, \$42,500; Texas College of Arts and Industries, Kingsville—improvements, \$36,000; State Teachers College, Nacogdoches—repairs, \$38,500; State Teachers College, San Marcos—repairs and improvements, \$47,250; State Teachers College, Alpine—repairs, \$7,000; tunnels and land improvements, \$33,500; State Teachers College, Canyon—repairs, well and tunnels, \$37,400; Texas School for Blind, repairs and tunnels, \$35,000; Texas School for Deaf, improvements, \$40,000; enlarging dormitory, \$10,790; Austin State School for Feeble-minded, Austin—water system improvements, \$9,000; Deaf, Dumb and Blind School, colored, Austin—repairs, \$4,000; remodeling, \$13,000; water system, \$10,000; Girls Training School—repairs, \$12,000; State Juvenile Training School, Austin—improvements, \$10,000; University of Texas, Austin—general repairs, \$25,000; J. D. Hall, State Budget Comm., Austin.

Tex., Austin—University of Texas, J. W. Calhoun, Comptroller, plans \$25,000 locker room under wing of Texas Memorial Stadium.

Tex., Austin—State Bd. of Control, R. B. Walthall, Chmn., receives bids Dec. 20 for \$44,000 2-story and basement, 60x100 ft., brick, stone, rein. conc. dining hall at Deaf, Dumb and Blind Institute, colored; built-up roof, cement and linoleum floors; Glesecke & Harris, Archts., Norwood Bldg. 10-31

Tex., Del Rio—Del Rio Ind. School Dist. Trustees selected Page Bros., Littlefield Bldg., Austin, to prepare plans for school improvements; bond election planned.

Tex., Denton—State Teachers' College plans campaign for \$60,000 for Memorial Tower; at top of 130 ft. tower will be 4-faced illuminated clock; clubhouse to be built in connection to be L shape, wings of which will contain club rooms; E. O. Rogers, Chmn. Campaign Comm.

Tex., El Paso—School Bd., J. Walker Morrow, Pres., receives bids Dec. 20 for \$275,000 East Side High School, Memphis and Byron Sts.; 2 stories and basement, 48 rooms, brick, auditorium to seat 1800 people, gymnasium 40x80 ft., library 64x80 ft., 90-ft. tower above main building; Guy L. Fraser, Martin Bldg., and Braunton & McGhee, First Natl. Bk. Bldg., Asso. Archts. 11-21

Tex., Fairfield—Fairfield Ind. School Dist. erect brick and rein. conc. addition to school; Page Bros., Archts., Littlefield Bldg., Austin.

Tex., Garden City—Glasscock County votes Dec. 17 on \$40,000 bonds for schools at Garden City and Teele and addition to Line School.

Tex., San Antonio—Bd. of Education, J. G. Hornberger, Pres., receives bids Dec. 16 for \$69,300, 12-room and assembly hall Blue Bonnet School; Malcolm G. Simons, Archt., Bldgs. Exchange Bldg.; also receives bids Dec. 19 for \$75,000, 16-room and assembly hall David Barkley School; both fireproof; Henry T. Phelps, Archt., Hicks Bldg.; Phelps & Dewees, School Archts., Hicks Bldg. 9-19

Tex., San Antonio—Bd. of Education, J. G. Hornberger, Pres., has low bid at \$7405 from Allen & Allen, 217 Fredericksburg Rd., repairs to Herff School, Indiana and Hackberry Sts.; also low bid at \$31,295 from Martin Ebest for 6-classroom and assembly hall fireproof addition to Riverside Park School No. 23; Albaugh & Steinbomer, Archts., Real Estate Bldg.; Phelps & Dewees, School Archts., Hicks Bldg. 11-7

Tex., Sweetwater—Bd. of School Trustees call election early in 1930 on \$200,000 or more bonds for negro ward school, Mexican ward school, Jr. high, remodel present high and convert into another Jr. high school; conc., brick and tile, oak floors, built-up roofs; W. R. Griffin, Archt., Box 583. 11-28

Tex., Texarkana—Following contractors estimating on 5 school additions, bids Dec. 16: E. E. Rabalais, Bunkle, La.; Quisile & Andrews, 2212 W. Seventh St., Fort Worth; W. T. Bentley, 1217 W. Sixth St.; Walter Harris, care Texarkana Hardware Co.; Tom Bentley, 3002 Walnut St.; Oats Building & Construction Co.; Casey & Swindel, Norwood Bldg.; White & Collinsworth, Presbyterian Bldg.; Hardy Construction Co., all Texarkana; H. Cleveland, Giddens-Lane Bldg.; McMichael Construction Co., City Bk. Bldg., both Shreveport, La.; Stewart-McGehee Construction Co., Kahn Bldg., Little Rock, Ark.; J. H. Reddick, Kennedy Bldg., Fort Smith, Ark.; C. A. & J. M. O'Neal, Hope, Ark.; S. J. Buckalew, Burt Bldg., Dallas; Tom Wilmoth, Camden, Ark.; Witt, Seibert & Halsey, Archts. 11-28

Va., Lynchburg—Randolph-Macon Woman's College, erect \$50,000 science building.

W. Va., Institute—State Bd. of Control, James S. Lakin, Pres., Charleston, receives bids Jan. 7 for vocational building and general barn at West Virginia State College; former to cost \$120,000, H shape with two 2-story wings 30x100 ft. and 3-story central link 50x150 ft., brick, stone trim, fireproof, linoleum, terrazzo and conc. floors, built-up roof, steam heat; V. C. Pettit, Archt., Kanawha Bk. & Trust Bldg., Charleston; latter to be 36x92 ft., frame, asbestos shingle roof; silo 10x26 ft.; Jno. C. Norman, Archt., K. P. Bldg., Charleston. 12-5

W. Va., Morgantown—State Bd. of Control, Jas. S. Lakin, Pres., Charleston, has low bid at \$282,884 from C. A. Moses Construction Co., 178 West Adams Street, Chicago, for \$300,000, 2-story and basement, 151.6x118.2 ft., brick and stone library at West Virginia University; Edward Coll, 104 Melts Ave., low at \$12,000 on electrical work; Charles E. Munford low on heating, ventilating and plumbing, at \$37,345; Davis, Dunlap & Barney, Archts., 1805 Walnut St., Philadelphia, Pa. 11-28

### Stores

Ala., Birmingham—Burgher-Phillips Dry Goods Co., 2013 Second Ave., N., indefinitely postponed erection 10-story department store, Second Ave. and 15th St.; Miller & Martin, Archts., Title Bldg. 12-5

D. C., Washington—Huyler, Inc., R. Branley, 384 Broadway, New York, ready for bids for \$50,000, 2-story, brick store, 12th and F Sts.

Md., Dundalk, Baltimore—Eyring Realty Co., J. Eyring, 808 S. Conkling St., erect \$25,000, 2-story, brick store and apartment on Center St.

Mo., St. Louis—Rothschild Bros. Hat Co., S. I. Rothschild, Pres., 1100 Washington Ave., expend \$50,000 for improvements to brick store; C. F. Deitering, Archt., Central Natl. Bk. Bldg.

Mo., St. Louis—S. D. Rossi, Inc., 1412 N. Broadway, soon let contract for 2-story and basement, 50x60 ft., rein. conc. and brick store, Delmar Blvd., west of Skinker Road; House Furniture Co., Lessee; Gustav Wuest, Archt., Wainwright Bldg.

Mo., Wellston, St. Louis—J. A. Quinn, 7053 Forsythe Blvd., rejected bids for 1-story and basement, 60x100 ft., brick store, Evergreen and Wells Ave.; C. E. Etz, Archt., Title Guaranty Bldg. 10-24

N. C., Greensboro—Richardson Realty Co., Inc., Piedmont Bldg., receiving bids, date closing not set, for interior and exterior improvements to 5-story and basement, 100x50 ft., brick business building, 313-15 Battleground Ave.; conc. floors, comp. roof; James M. Workman, Struc. Engr., N. Greene St.

## BUILDING CONTRACTS AWARDED

### Association and Fraternal

Md., Baltimore—Young Men's Hebrew Assn., Aaron Straus, Chmn., Bd. of Trustees, started work on \$650,000 bldg.; brick and stone, fireproof, 3 stories and basement, front 100 ft. on Monument St., 185 on Linden, 194 ft. on Druid Hill Ave. and 50 ft. on Eutaw St., lounges, library, 30 x 75-ft. swimming pool, 50.5x94-ft. main gymnasium, 2 auxiliary gymnasiums, 36x26 ft. and 36x23 ft., 4 handball courts, 65x50-ft. meeting room with 33x19-ft. stage, 13 class and club rooms, game, billiard and lunch rooms; office of Jos. Evans Sperry, Archts., Calvert Bldg., Baltimore; Frank E. Hahn, Const. Archt., 629 Chestnut St., Philadelphia, Pa.; Chas. L. Reeder, 916 N. Charles; Fraunie Bros. & Haigley, Contra., 20 W. Franklin St.; struct. steel, Dietrich Bros., 220 Pleasant St., all Baltimore. 12-5

Tex., Cleburne—Ancient Free and Accepted Masons let contract at \$56,608 to H. D. McCoy, Cleburne, for temple; brick, stone and conc., 2 stories, 80x96 ft., rein. conc. foundation, tar and gravel roof; W. G. Clarkson & Co., Archts., First Natl. Bk. Bldg., Fort Worth. 11-14

Tex., Laredo—Salvation Army let contract for \$10,000 bldg. to A. Medina Martinez care Alamo Lumber Co.; brick veneer, 2 stories, pine floors, Barrett specification roof; furnishings, equipment, etc., \$5,000; Guy M. Trout, Archt. 12-5

N. C., Hickory—Hickory Grocery Co. plans 2-story building, 12th St. and 11th Ave.

Tex., Beaumont—Henry Roos has permit for \$18,000 brick business building on Calder Ave.

Tex., Corpus Christi—Simon-Cohn Co., Joseph Cohn, Chaparral and Starr Sts., purchased site on N. Chaparral St. for department store; architect not selected.

Tex., Harlingen—J. A. Hollingsworth erect \$20,000, 75x140-ft. brick and rein. conc. store; R. Newell Waters, Archt., Weslaco.

Tex., Laredo—Sears, Roebuck & Co., W. H. McDonald, Constr. Dept., Chicago, does not plan store, Farragut St. and Convent Ave. 12-5

### Theaters

Md., Salisbury—Lee Insley, Main St., reported, erect \$75,000, 2-story, brick theatre, S. Division St.

Mo., Kansas City—Fox Theaters, Inc., Harold B. Franklin, Los Angeles, Calif., reported, erect theater.

Okla., Tulsa—Tulsa Little Theater, Joseph E. Washington, Pres., Philtower Bldg., ready for bids about Jan. 15 for 1 and 2-story, brick and hollow tile theater; Donald McCormick, Archt., Atlas Life Bldg.

Tenn., Lebanon—Cumberland Amusement Co., C. B. Patterson, Pres., remodel and refurnish theatre; 1-story and basement, hardwood, pine and conc. floors, warm air heat.

### Warehouses

Mo., St. Louis—Renard Linoleum & Rug Co., Wallace Renard, Pres., 1015-17 Washington Ave., leased 8-story building, 13th St. and Washington Ave., and 6-story warehouse, 1006-10 Spruce St., and will occupy both structures after alterations have been made.

Okla., Tulsa—Goulds Pumps, Inc., Seneca Falls, N. Y., R. T. Roberts, Dist. Mgr., Kennedy Bldg., plans sales office and warehouse on Archer St.

Tex., Dallas—Dr. Edgar Loomis, Medical Arts Bldg., has permit for \$10,000, 1-story, brick warehouse, 2109-11 Griffin St.

Tex., San Antonio—International Harvester Co., W. D. Price, Supt. of Constr., Harvester Bldg., Chicago, J. M. Ryan, Branch Mgr., Bedell Bldg., has low bid at \$74,980 from Kucharo Construction Co., Des Moines, Iowa, for 2-story and basement, 250x87-ft., brick, hollow tile and stucco cast stone branch house, S. Flores and Peden Sts.; tile roof, conc. and terrazzo floors; plans by Company Engr. Dept. 11-28

### Bank and Office

D. C., Washington—Washington Investment Co. let contract to C. Wohlgemuth, Jr., 1800 E St., N. W., for branch bank, 304 Fourteenth St., S. W.; brick and stone, 1 story; Arthur B. Heaton, Archt., 1211 Connecticut Ave., N. W. 12-5

### Churches

Ga., Atlanta—North Ave. Presbyterian Church, Dr. Richard Orme Flynn, Pastor, let contract to J. S. McCauley Co. for \$115,000 Sunday school; plumbing and heating, Clare & Hogan; elect. work, Walker Electric Co., all Bona Allen Bldg., Atlanta; fireproof, rein. conc., hollow tile, face and common brick, terra cotta trim, struct. steel roof truss, granite work, 4 stories and basement, 50x160 ft., terrazzo, tile and hardwood floors, tile roof, dumb waiter; R. H. Hunt Co., Archt., James Bldg., Chattanooga, Tenn.; Robt. S. Fiske, Const. Engr., Healey Bldg., Atlanta; \$300,000 auditorium later. 11-21

Ga., Waycross—First Presbyterian Church, Rev. Louis C. LaMotte, Pastor, repair structure damaged by fire; \$15,000, brick, comp. roof; work by day labor.

Md., Baltimore—Twenty-fifth St. Christian Church, Rev. L. E. Cousins, Pastor, 221 W. 25th St., let contract to Avon Construction Co., 216 E. Lexington St., for \$40,000 church and Sunday school, 4903 York Rd.; former native stone, 30x90 ft.; latter stucco, 30x70 ft.; wood, probably pine, floors, slate roofs,



steam heat, English type; A. F. Wickes, Indianapolis, Ind., and Alfred Cookman Leach, 411 N. Charles St., Baltimore, Archts.

Tex., Port Arthur—Memorial Baptist Church, Rev. Oscar Perkins, Pastor, erect \$50,000 bldg., Shreveport Ave. and 16th St.; Livesay & Wiedemann, Archts., San Jacinto Life Bldg., Beaumont; H. W. McCord, Contr., Adams Bldg., Port Arthur.

Tex., Richmond—Baptist Church let contract for \$25,000 brick bldg. to C. W. Ennis, 3219 1/2 Louisiana St.; Alfred C. Finn, Archt., Bankers Mortgage Bldg., both Houston.

### City and County

Fla., St. Petersburg—City let contract at \$11,823 to DuBois & Hennessey, 3207 Third Ave., S., for solarium. 11-28

Okla., Shawnee—City rebuild Carnegie Library; \$18,000 brick, 1 story and basement, 54x54 ft.; A. C. Davis, Archt., S. F. Graham, Contr.

Tenn., Johnson City—City let contract to Carter Construction Co. for changes to municipal bldg.; D. R. Beeson, Archt. 11-21

Tenn., Knoxville—City let contract for \$18,000 Kingston Pike fire station to S. D. Cox & Co., Empire Bldg.; conc., 2 stories, 45x58 ft., conc. foundation, tile roof; Manley & Young, Archts., Maplehurst Park. 11-21

Tenn., Knoxville—City let contract to W. A. & J. E. Gervin, Clinch Ave., for \$16,000 Lonsdale branch of Lawson McGhee Library; brick veneer, 1 story, wood floors, brick foundation, slate roof; Baumann & Baumann, Archts., 813 1/2 Market St.

Tex., Junction—Kimble County Bd. of Commrs., let contract at \$81,047, including heating, lighting and plumbing, to T. D. Porter, San Angelo, for brick and rein. conc. courthouse; 2 stories; Henry T. Phelps, Archt., Hicks Bldg., W. E. Simpson & Co., Engr., Milam Bldg., both San Antonio. 11-14

### Dwellings

Ark., Conway—J. C. White erecting brick veneer residence; 1 story, 5 rooms, oak floors, comp. shingle roof; owner builds.

D. C., Washington—North Washington Realty Co., E. Brooke Lee, Pres., erect 15 brick dwellings, Slijo Park near Takoma Park, and 10 dwellings in Northgate; former sell for from \$9200 to \$14,000 and latter from \$18,000 to \$24,000; former stone, brick and frame, 1 and 2 stories, oak floors, cinder block and brick foundations, comp. shingle and slate roofs; Howard Cutler and Volney Chase, Archts., 1800 E St., N. W.; owner builds. See Want Section—Building Material and Equipment.

D. C., Washington—Davis-Wick-Rosengarten Co., 1406 G St., N. W., has contract for 2 dwellings and garages, Reno Rd., near 39th St.; stone, 2 stories; \$38,000; E. W. Syme, Archt., 903 Fifteenth St., N. W.

D. C., Washington—E. T. Lindner, 3525 Davenport St., erecting \$14,500 dwelling; brick and tile, 2 stories, 27x35 ft., white oak floors, slate roof; plans by owner; sub-contracts let. 12-5

Fla., Coral Gables, Miami—Carl Green, 809 Valencia Ave., erect \$30,000 residence, garage and servants' quarters; rein. conc., conc. block and stucco, tile and oak floors, tile roof, cast stone, wrought iron work; Anthony DeH. Zink, Archt., Seybold Bldg., Miami; plans nearing completion; owner builds.

Fla., Miami Beach—N. R. Boice, 753 Avenue Minorca, Coral Gables, started work on rein. conc., conc. block and stucco residence; 2 stories; owner builds.

Fla., Miami Beach—W. Brown, care Russell Pancoast, Archt., Lincoln Rd., erect \$19,000 residence, 5852 Pine Tree Drive; rein. conc., conc. block and stucco, 41x100 ft., tile roof; Continental Construction Co., Contr., Exchange Bldg., Miami.

Fla., South Jacksonville, Jacksonville—Miss Thelma Shad erect \$10,000 residence, Fricks Addition to San Marco; brick veneer; 2 stories, 8 rooms; E. M. Henderson, Contr.

Fla., South Jacksonville, Jacksonville—Capitol Concrete Co., South Jacksonville, erect \$10,000 duplex, Pearl Court; brick, 2 stories, 32 x 58 ft., hardwood floors, rein. conc. foundation, wood piling, asbestos shingle roof; Roy Fiske, Archt., Jacksonville; W. J. Hicklin, Engr., 120 Palmetto Ave., South Jacksonville; owner builds. See Want Section—Building Material and Equipment. 12-5

La., New Orleans—A. E. Stamps, Contr., 9022 Palm St., erect bungalows.

La., New Orleans—John F. Clark, Jr., Canal Bank Bldg., erect Colonial residence, Iona St.; Carl E. Woodward, Inc., Louisiana Bldg., contract at \$32,295.

Md., Baltimore—Cary R. Wilson, 300 S. Robinson St., erect 2 brick dwellings, 218-20 Wendover Rd.; 2 stories, 53.4x75 ft. and 57x72.10 ft., hot water heat; \$33,000; Palmer & Lambdin, Archts., 513 N. Charles St.; Major Engineering Co., Contr., Preston and Guilford Ave.

Md., Baltimore—Baltam Realty Corp. erect \$13,000 brick residence and garage, 5203 Purlington Way, Homeland; 2 1/2 stories; Harold Appleton Stilwell, Archt.; Peyton B. Strobel Construction Co., Contr., both 206 E. Lexington St.

Md., Baltimore—Henry Construction Co., erect 15 brick dwellings, Garrison Ave. near Oakard Ave.; early American type, 2 stories, 8 rooms; \$112,000; excavating.

Miss., Biloxi—Wade Hatten, care Hatten & Batson, Lyman, started work on \$20,000 residence, East Beach; pressed brick foundation, 2 stories; Carl E. Matthes, Archt., Biloxi; Zack Bailey, Contr., Gulfport; lumber by owner.

Mo., St. Louis—Schuermann Building Co., Wellston, erect 10 brick dwellings, 8116-52 Toddy Margana Place; \$19,000.

Mo., St. Louis—Mrs. Mary Watson, care J. Hal Lynch & Son, Archts., Dolph Bldg., let contract to McClintock Bros., 1340 Ferguson Ave., for residence, Pasadena Hills; brick, 2 stories and basement, 26x39 ft. 11-7

Mo., St. Louis—M. D. Holmes, 6202 Victoria Ave., erect \$10,000 residence, 7744 Dale Ave., Richmond Heights; brick, 1 story and basement, 30x37 ft., hardwood floors, tile bath, asphalt shingle roof, hot air heat; W. L. Brown, Contr., 2202 Charlock St., Overland.

N. C., High Point—W. H. Slane, Parkway St., erect \$75,000 residence; fireproof, rein. conc., brick and tile, stone work, slate roof; Northrup & O'Brien, Archts., Starbuck Bldg., Winston-Salem; R. E. Stewart & Son, Contrs., S. Hamilton St., High Point.

S. C., Greenville—W. S. Griffin, Jr., News Bldg., erect \$10,000 residence, 203 Tindal Ave.; 1 story, 42x68 ft.; H. R. Trott, Archt.; J. Q. Ricker, Contr.

Tenn., Memphis—Joe F. White, 1758 Poplar Ave., erect \$10,000 brick veneer residence, 1400 Parkway; 1 story, 34x54 ft., hardwood floors, tile baths, tile roof, hot water heat; R. L. Selg, Archt., First Natl. Bk. Bldg.; owner builds.

Tex., Beeville—Otto Peters erect 6-room cottage, Tyler St.; H. B. Martin, Contr.

Tex., Fort Worth—J. C. Cook, 2238 Mistletoe St., erect \$10,500 residence, 2205 Windsor Drive; brick veneer, 2 stories, 35x23 ft., oak floors, tile bath; H. V. Sproler, Contr., 2233 Hawthorne St.

Tex., San Angelo—Sidney S. Millsbaugh let contract at \$26,000 to Hellum Simmons, care South Texas Lumber Co., San Angelo, for brick veneer residence, Washington Drive; 2 stories, oak, pine and tile floors, rein. conc. foundation, Spanish tile roof; Anton F. Korn & B. M. Morgan, Archts., Thomas Bldg., Dallas, and San Angelo. 12-5

### Government and State

Fla., Tampa—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., let contract at \$333,700 to J. L. Crouse, American Bank Bldg., Greensboro, N. C., for extension and remodeling of post office, custom and courthouse bldg.; rein. conc., brick, hollow tile or gypsum block partitions, terra cotta trim, granite work, 4 stories, 207x43 ft. 11-21

Ga., Savannah—U. S. Dept. of Agriculture, Washington, erect Chinese type stucco museum bldg., bamboo farm, Ogeechee Rd.; fireproof, Cuban tile roof; Geo. C. Ransom, Contr., 104 Brady St., Savannah.

N. C., Raleigh—State improve Governor's mansion; plumbing, masonry work, gray granite steps, storm drains; R. G. Lassiter & Co., Citizens Bank Bldg., contract at \$9664.

Tenn., Columbia—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., let contract at about \$20,000 to Algeron Blair, First Natl. Bk. Bldg., Montgomery, Ala., to remodel and enlarge post office. 12-5

Tex., Pearsall—J. M. Riggan let contract to Will Cronin for bldg. to be leased to Government for post office; 27x70 ft.; Gov. to furnish fixtures. 11-28

### Hospitals, Sanitariums, Etc.

Fla., Lake City—United States Veterans Bureau, Arlington Bldg., Washington, D. C., let contract at about \$29,000 to J. M. Ray-

mond Construction Co., Hildebrandt Bldg., Jacksonville, Fla., for utilities storehouse and addition to mess and kitchen bldg., U. S. Veterans Hospital; brick, hollow tile and rein. conc., steel shelving, vaults, built-up roof, steel sash. 12-5

Mo., St. Louis—St. Lukes Hospital let contract to Gamble Construction Co., Chestnut St., for \$85,000 boiler house, 554 Enright Ave.; 2 stories, brick, 60x105 ft., comp. roof; LaBeaume & Klein, Archts., Compton Bldg.

S. C. Sumter—Tuomey Hospital, I. C. Strauss Pres., let contract at \$97,660 to Jewell-Riddle Co., Sanford, N. C., for fireproof hospital; rein. conc., Alredale face brick, gypsum and hollow tile, stone trim, 4 stories, 43x148 ft., marble, tile and terrazzo floors, Barrett or Johns-Manville 20-yr. built-up roof; Wilson & Tatum, Archts., Palmetto Bldg., Columbia, S. C. 11-28

Tex., Rusk—State Bd. of Control, Austin, let contract at about \$15,000 to E. B. Snelling, Rusk, for kitchen and refrigerator room addition, State Hospital for Insane; brick, tile and rein. conc., L shape, 40x60 ft. and 24x18 ft., terrazzo floors, enamel brick, cork insulation; Page Bros., Archts., Austin Natl. Bk. Bldg.; Austin; Gardner & Howe, Engrs., Kirby Bldg., Dallas. 12-5

### Hotels and Apartments

Ark., Little Rock—Seth Wagner Co., 213 W. 2nd St., has permit for \$10,000 apartment, 1129 Scott St., for Mrs. Alice Bard.

Fla., Miami Beach—Blackstone Hotel, Washington Ave. and Eighth St., has permit for \$50,000 addition to front of building; Stone Properties, Contr.; B. K. Hall, Archt., 125 Sixth St.

La., New Orleans—John Caron, 1601 Coliseum St., erect 4-apartment, 1327 Coliseum St.; owner builds.

Md., Federalsburg—J. Howell let contract to C. E. Brohawn & Bros., Arcade Bldg., Cambridge, for \$25,000, 2-story, brick, 6-apartment.

Mo., Springfield—W. H. Hutler, 282 Elm St., excavating for \$30,000, 2-story, brick apartment.

Mo., St. Louis—Jesse L. Poffenbarger, 454 N. Sarah St., excavating for \$20,000, 2-story and basement, 60x40 ft., brick, 4-apartment, Westmoor Park, St. Louis County; slate or tile roof, steam heat, hardwood floors; owner, Archt.-Bldr.

Mo., St. Louis—M. Newman, 5649 St. Louis St., has permit for \$12,000, 2-story, 34x52 ft., brick tenement, 5623-25 St. Louis St.; comp. roof, hot air heat; owner, Archt.-Bldr.

Mo., St. Louis—Missouri Rolling Mill Corp., 6800 Manchester St., has contract for 100 tons rein. steel for 14 story addition to Melbourne Hotel; Trade Realty & Building Co., Gen. Contr., 111 N. 7th St.; Preston J. Bradshaw, Archt., 718 Locust St.; Brussel & Viterbro, Engrs., Arcade Bldg. 12-5

Mo., St. Louis—Miss Mae Cleary, 3437 Iowa Ave., let contract to Ruhaack & Co., 2623 Texas Ave., for \$45,000, 2-story, brick, 8-apartment, 5724 Coronado Drive; C. N. Breit-schuh, Archt., 3508 Humphrey Ave.

Mo., St. Louis—F. Yawitz, 2333 Pine St., has permit for \$20,000, 3-story, brick hotel, 3206-10 Olive St.; comp. roof, steam heat; O. J. Popp, Archt., Arcade Bldg.; owner, Bldr.

S. C., Florence—W. R. Barringer Hotel Co. let contract to John W. Hudson Co., Raleigh Bank & Trust Bldg., Raleigh, N. C., for \$500,000, 12-story and basement, 170-room hotel; rein. conc., struct. steel, brick and tile, terra cotta trim, Indiana limestone work; stores on ground floor, 3 elevators, radio and electric fans in all rooms; H. A. Underwood & Co., Archts., Hotel Carolina Bldg., Raleigh. 11-21

### Miscellaneous

Fla., Miami Beach—Deauville Casino, Samuel J. Boyce, Collins Ave., and 67th St., let contract to George W. Langford, McAllister Hotel, Miami, for \$20,000 improvements to casino; John & Coulton Skinner, Archts., French Village, Lejune Road, Coral Gables.

Ga., Jasper—Tate Mountain Estates, Sam Tate, Pres., Tate, let contract on cost plus basis to W. D. Manning, Tate, for Conna-hayes Lodge on Joe Burrell Mountain near Jasper; \$50,000, 2 stories, 50x120 ft., log cabin design, wood shingle roof, part native stone exterior, hardwood floors; De Ford Smith, Archt., Peachtree Bldg., Atlanta.

Va., Fredericksburg—The Kenmore Assn., Inc., restoring kitchen of Kenmore Mansion;

\$12,000, 1x22 ft., 1 1/4 stories, brick, slate roof, brick and wood floors; J. R. Jones and Conquest, Inc., Contr., American Natl. Bk. Bldg., Richmond; Edw. W. Donn, Jr., Archt., 1920 K St., N. W., Washington, D. C.; Philip N. Stern, Asso. Archt., Law Bldg., Fredericksburg. 12-5

### Schools

D. C., Washington — District Commrs., District Bldg., let contract at \$116,289 to Arthur L. Smith & Co., 2539 Pennsylvania Ave., for 4-room addition and improvements to Buchanan School. 11-14

Fla., Bristol—Liberty County Bd. of Public Instruction complete \$45,000 school by day labor and subcontract; Alvin R. Moore, Archt., Centennial Bldg., Tallahassee, supervising construction. 11-14

La., Alexandria—Bd. of Directors, State Colony & Training School at Camp Beauregard rejected bids for \$50,000, 1-story, rein. conc., brick and stone trim dormitory and will erect with day labor; Weiss, Dreyfous & Selferth, Archts., Maison Blanche Bldg., New Orleans. 11-14

Md., Baltimore—Bd. of Awards, Room 324, City Hall, let contract at \$94,802 to Benjamin Pughatch, 2217 E. Lombard St., for two steel fire and emergency exit stairways at School No. 62, Walbrook Ave. and Smallwood St.; also let contract at \$19,178 to Dulaney-Vernay Co., 339 N. Charles St., for equipment for new schools. 11-14

Mo., Macon—Bd. of Education, C. Wardell, let contract at \$94,802 to S. V. Rollins, Kirksville, for 2-story brick high school; heating and plumbing, \$15,835, J. Louis Crum, Columbia; Warren Roberts, Archt., 719 1/2 Webb St., Chillicothe. 8-1

Tenn., Chattanooga — Bd. of Education started work on \$54,000, 2-story and basement, 135x60-ft. brick school in Missionary Ridge School Dist.; wood, terrazzo and cement floors, slate and comp. roof; A. F. Hahn, Contr., Chamberlin Bldg.; James G. Gauntt, Archt., Hamilton Natl. Bk. Bldg. 11-28

Tex., College Station—Agricultural and Mechanical College of Texas erect 80-room brick and rein. conc. dormitory; Will A. Orth, Supt. of construction; Prof. F. E. Giesecke, College Archt.; Austin Co., Linz Bldg., Dallas, low on reinforcing. 10-24

Tex., Prairie View — Prairie View State Normal and Industrial College erect \$100,000 mechanical engineering shop; brick and rein. conc.; plans by Prof. F. E. Giesecke, A. & M. College of Texas, College Station. 11-28

Tex., San Antonio—Bd. of Education, J. G. Hornberger, Pres., let contract at \$65,405 to Charles H. Blount, Houston Bldg., for 10-classroom and assembly hall fireproof addition to Collins Garden School; Beverly W. Spillman and Beverly W. Spillman, Jr., Archts., Alamo Natl. Bk. Bldg., Phelps & Dewees, School Archts., Hicks Bldg. 11-28

### Stores

Ark., Melbourne—R. J. Estes erect 1-story, 25x140 ft., brick and stone store to replace burned structure; comp. roof, wood floors; owner, Archt.-Bldr. 11-28

Ga., Atlanta—Lynch & Joel Estates, Harry Crider, Agent, Grant Bldg., let contract to Joe Walker, Georgia Savings Bk. Bldg., for \$13,500 improvements to 3-story brick building, 86-88 Alabama St., S. W. 11-28

Ky., Bowling Green — Pushin Department Store, Main and College Sts., started work on 3-story addition. 11-28

La., Ponchatoula — R. E. Perrin, Contr., started work on \$11,000, 2-story building, E. Pine St. and Railroad Ave.; Harris Drug Store on first floor; H. E. Tucker's office above. 11-28

Mo., Maplewood, St. Louis—C. W. Eather-ton, 7310 Manchester Ave., let contract to W. J. Blanner, 7711 Jerome St., Maplewood, for 2-story and basement, 50x25 ft., brick store, 7150 Manchester Ave.; Union House Furnishing Co., Lessee, 1120 Olive St.; F. G. Avis, Archt., 1021 Big Bend Blvd. 11-21

Mo., St. Louis—Guarford Realty & Investment Co., Fullerton Bldg., has permit for \$11,000, 1-story, 50x120 ft., brick store and warehouse, 4312 Clayton St.; asphalt roof; W. C. Harting Construction Co., Bldr., 722 Chestnut St.; Nolte & Naumann, Archt., 3848 W. Pine St. 11-21

Mo., St. Louis—V. Massa, Normandy, has permit for \$10,000, 40x50 ft., brick store and flat, Devaney's Subdivision. 11-21

N. C., Durham—Ingalls Iron Works, Birmingham, Ala., have contract for 400 tons fab. struc. steel for \$200,000 S. H. Kress Co.'s store, W. Main and S. Mangum Sts.; 11-21

G. A. Miller, Inc., Gen. Contr., 312 1/2 Twiggs St., Tampa, Fla. 10-24

Tenn., Knoxville—Tinsley Tire Co., 829 S. Gay St., let contract to Weaver & McGill, General Bldg., for \$37,000, 1-story and basement store, Main Ave. and Gay St.; built-up roof, tile and conc. floors, steam heat; Dow & Dow, Engrs., Brownlow Bldg. 11-21

Tex., Austin—Judge Ireland Graves, Paul O. Simms, Agent, 121 W. Seventh St., let contract to James M. Odom, 905 Neuces St., for \$40,000, 1-story and basement, 70x125 ft., brick, stucco and rein. conc. community store, 19th and Whitis Ave.; cast stone trim, conc. terrazzo tile and wood floors; Giesecke & Harris, Archts., Norwood Bldg. 11-21

Tex., Austin—J. C. Penney Co., 330 W. 34th St., New York, has permit for \$50,000 brick building, 511 Congress Ave.; J. J. Wattinger, Contr., Austin Natl. Bank Bldg. 9-5

Tex., Bellville—Dr. J. A. Neely let contract to W. P. Machemhl, Bellville, for 2-story, 38x100 ft., hollow tile and brick clinic and store; L. A. Glover and Carl A. Mulvey, Archts., San Jacinto Life Bldg., Houston. 11-14

Tex., Houston—C. B. Berry & Co., Contr., Marine Bk. Bldg., soon start work on rein. conc. commercial building, Milam and Lee-land Sts. 11-14

### Warehouses

Mo., St. Louis — Cities Service Oil Co., Tulsa, Okla., Wm. L. Lund, Local Mgr., 600 S. Vandeventer Ave., let contract to Hercules Construction Co., Wainwright Bldg., for 1-story, 50x60 ft., brick warehouse, 4226 Chip-pewa St. 11-14

Tex., Houston—Walgreen Texas Co., 1401 Fannin St., started work on \$20,000, 1-story, brick warehouse, Alameda and Truxillo Sts. 11-14

### Book Reviews

American Directory of the Knitting Trade in the United States and Canada. 1929. Compiled by Textile World, Bragdon, Lord & Nagle Division of McGraw-Hill Publishing Company, Inc., New York. 900 pp. Price \$2.00.

This publication contains a report on knitting mills in the United States and Canada, arranged alphabetically by states and towns, and covers capitalization of the companies, names of officers, including superintendent and buyer, character of goods made, number of knitting machines, whether latch or spring needle; number of sewing machines; whether the mill dyes, bleaches or finishes and whether it uses steam, water or electric power. It also names the selling agents and the kinds and sizes of yarns bought, and contains an index of machinery and supplies used in the manufacture of knit goods, also yarn dealers supplying knitting yarns. There is also much other information for the trade. It is a valuable book.

High Finance in the Sixties. Chapters from the Early History of the Erie Railway by Charles Francis Adams, Jr., Henry Adams, Albert Stickney, George Ticknor Curtis and Jeremiah S. Black. Edited, With an Introduction, By Frederick C. Hicks, Professor of Law and Law Librarian in the Yale Law School. 410 pp. Yale University Press, New Haven, Conn. Price \$5.00.

This volume is the fifth work published by the Yale University Press on the William McKean Brown Memorial Publication Fund. A book titled Chapters of Erie and Other Essays grew out of an article, A Chapter of Erie, by Charles Francis Adams, Jr., first published in the North American Review of July, 1869, and reprinted in the same year as a pamphlet of 152 pages in Boston, by Fields, Osgood and Company. Chapters of Erie and Other Essays contained eight essays, three by Charles Francis Adams, Jr., four by Henry Adams, and one by Francis A. Walker and Henry Adams. It was published in Boston in 1871 by James R. Osgood

and Company, and printed without change by Henry Holt and Company in 1886. The present volume retains only the first three essays which relate to the Erie Railway, replacing the others by four articles published in 1871 and 1872. To unify the articles the author has supplied introduction, table of events, footnotes and biography.

City Planning. Second Edition. Edited by John Nolen. 513 pp. D. Appleton & Company, Publishers, New York. Price \$3.50.

This volume, as edited by John Nolen of Cambridge, Mass., prominent landscape architect and city planner, embraces and supplements the original edition issued in 1916. It presents chapters on new aspects of city planning, including chapters on Zoning, by Edward M. Bassett, and on Regional Planning, by Mr. Nolen; the chapter on City Planning Legislation has been rewritten and brought up to date by Alfred Bettman, and the original introduction has been rewritten by Frederick Law Olmsted. In its entirety the volume deals with problems that confront practically all towns and cities and presents lines of investigation, planning and control which have been found sound in theory and successful in practice. The publication is of the National Municipal League Series.

Earnings in Standard Machine Tool Occupations. By H. Larue Frain, Wharton School of Finance and Commerce, University of Pennsylvania. 85 pp. Price \$1.50. University of Pennsylvania Press.

This publication is the fifth of a series of research studies by the Industrial Research Department of the Wharton School of Finance and Commerce of the University of Pennsylvania, Philadelphia, an examination of earnings in certain standard machine-tool occupations in that city. In preparation of the work, the author has divided the study into six chapters, in addition to a summary and index, and presents two charts with more than 30 tables. Scope of the study is indicated by chapter titles, which include the following: A Preliminary Examination of Earnings in Selected Occupations, Hourly Earnings Among Plants, Relation of Method of Wage Payment to Earnings, and others.

Material Control and Storeskeeping in Machine Shops and Foundries. By Willis Wissler, of the Bureau of Business Research of the College of Commerce and Administration of The Ohio State University. Ohio State University Press, Columbus. Price \$1.50 to Residents of Ohio and \$2.50 to Non-Residents.

This is primarily a case study in foundry and machine shop procedure, with full data concerning routines, forms and devices used in material control and storeskeeping practice contributed by ten prominent manufacturing companies, selected in consultation with officials of the Central Ohio Manufacturers Association. A description of each step in each company's procedure is given, the study being designed for practitioners and intended to supply a clinical exhibit of the structure and function of material control and storeskeeping existing in the companies reporting. The scope of the work is indicated by its contents, which include chapters on the Purpose, Method and Scope of the Study; Foundry Type; Engineering Type; Material Control and Storeskeeping in the Foundry, and others.

Texas Utility News.—The Texas Power & Light Co., Dallas, recently issued the November number of Texas Utility News, official publication of that company and its affiliated interests. An article by Wellington Brink of the company, on "Texas Electrical Growth," features the issue.



# WANT SECTION

## THE CLASSIFICATIONS IN THIS SECTION ARE:

Machinery and Supplies	Building Materials and Equipment	Bids Asked
Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.	This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.	Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.
<i>Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.</i>		

### Machinery and Supplies

National Power Machinery Co., 1916 Scranton Rd., Cleveland, Ohio—Wants prices and data on following:

- (1) **Engine Generator Set**—150 to 200 kv-a., a. c. generator, 2300-440 volts, direct connected to uniflow steam engine
- (2) **Oil Engine Unit**—150 to 200 kv-a., a. c. generator, direct connected to Diesel oil engine
- (3) **Turbine Generator Units**—500 to 2500 kv., a. c. generators, direct connected to condensing turbines with automatic steam extraction features.

**Boiler Tubes**.—Hackley Morrison Co., Inc., 204-6 N. Jefferson St., Richmond, Va.—Wants prices and data on 200 good, 4-in. boiler tubes, 16 to 18 ft.

**Hoists**.—T. J. Lane, Box 458, Springfield, Ohio—Wants prices and data on 2 special hoists to handle ¾-yd. slack line bucket, belt or electric, 2 h. p., 60 cycle.

**Locomotives and Cars**.—Johnson & Hoehler, Inc. (Mch. Dealers), Fernwood, Pa.—Wants prices and data on 2, used 12-ton, 36-in. gauge gasoline driven locomotives, and 8. 5-yd., used side dump quarry cars, 36 in. gauge.

**Pumps**.—See Water Works Equipment.

**Tank and Tower**.—See Water Works Equipment.

**Tin Can Manufacturing Machinery**.—Harvey M. Mansfield, 711 Wallace S. Bldg., Consult. Engr., Tampa, Fla.—Wants prices and data from manufacturers of machinery for making tin cans; particularly interested in machinery for making cans for canning fruits and vegetables.

**Water Works Equipment**.—City of Bismarck, Mo., P. C. Rrund, Clk.—Want 350 gal. per min. centrifugal pump, 8 units; 100,000 gal. water tower 175 ft. high; 38 fire plugs; 8-in. water main.

### Miscellaneous

**Dairy Farm Equipment**.—Dieterich Bros. Certified Milk Farms, Inc., Herman F. Dieterich, Pres., P. O. Box 843, Dallas, Tex.—Wants prices and data on all equipment necessary to operate first class certified dairy farm.

**Engine (Gasoline) and Tractor Parts**.—McCrory Engineering Co. Box 448, Jacksonville, Fla.—Wants to contract with first class machine shop and foundry firm to manufacture small gasoline engine and tractor parts; will furnish complete drawings and patterns.

**Filters (Vinegar)**.—Powell Florida Vinegar Corp., 27th Ave. and 27th Lane, S. W., Miami, Fla.—Wants prices and data from manufacturers of filters for vinegar.

**Food-stuffs and Heavy Hardware**.—M. Vazquez Villa, (Comm. merchant and mfrs. representative), Apartado No. 235, Guantanamo, Cuba—Wants prices and data from American manufacturers and exporters of food-stuffs and heavy hardware lines.

**Wire Partitions**.—Walter O'Bannon Co., 400 S. Rockford St., Tulsa, Okla.—Wants prices and data on 500 to 1000 sq. ft. sectional woven wire partitions, sections 4x8 ft. with openings.

### Building Material and Equipment

John W. Cowper Co., Inc., State Planters Bank Bldg., Richmond, Va. bidding on both seaplane channel and power plant, and wind tunnel building for National Advisory Committee for Aeronautics, Langley Field, Hampton, Va., wants prices and sub-bids by Dec. 23.

Chas. Nelson, Belmont, Miss., wants prices on following for \$20,000 church:

**Metal Ceilings**  
**Plaster Board**  
**Roofing**—asbestos shingle.

Chas. A. Smith, Archt., 800 Finance Bldg., Kansas City, Mo., wants prices on following for ice storage building:

**Floors**—composition  
**Roof**—built-up.

M. B. DePass, Archt., 926 Pauline St., New Orleans, La., wants prices on following for \$50,000 to \$60,000 tuberculosis hospital:

**Cast Stone**  
**Flooring**—linoleum, composition  
**Incinerator**  
**Roofing**—asbestos shingle.

Capitol Concrete Co., South Jacksonville, Fla., wants prices on following for \$10,000 dwelling:

**Electric Refrigerators**  
**Flooring**—hardwood  
**Roofing (hip)**—asbestos shingle.

J. M. Spain, Archt., Millsaps Bldg., Jackson, Miss., wants prices on following for \$85,000 alterations and additions to courthouse, Greenville, Miss.:

**Cast Stone**  
**Flooring**—terrazzo  
**Roofing**—built-up, tile  
**Tile**—hollow.

J. M. Spain, Archt., Millsaps Bldg., Jackson, Miss., wants prices on following for dwelling, Anguilla, Miss.:

**Cast Stone**  
**Electric Refrigerators**  
**Flooring**—hardwood, linoleum, tile  
**Roofing**—tile.

North Washington Realty Co., Silver Spring, Md., wants prices on following for \$6500 to \$9000 dwellings:

**Flooring**—hardwood, linoleum, tile  
**Roofing**—slate.

Overstreet & Overstreet (Constructors), Bedford, Va., want prices on following for \$200,000 Bedford County courthouse, Bedford City:

**Cast Stone**  
**Dumb Waiters**  
**Flooring**—composition  
**Metal Lath**  
**Metal Windows and Doors**  
**Millwork**  
**Plastering**  
**Reinforcing Steel**  
**Soundproofing**  
**Stone Work**  
**Tile and Terrazzo.**

Hill, Harris & Co., Inc., Box 594, Alexandria, La., want prices on following for \$30,000 warehouse, office and store:  
**Store Fixtures**  
**Vault Doors.**

### Bids Asked

**Road Equipment and Materials**.—H. L. Washburn, County Auditor, Houston, Tex.—Bids Dec. 23 for following:

- (1) Graders—5
- (2) Gravel—15,000 tons
- (3) Lumber—23 cars
- (4) Road Maintainers—2
- (5) Shell—20,000 tons
- (6) Tractors—4
- (7) Trucks and Chassis—11.

**Bridges**.—State of Texas. Bids for 3 bridges. See Construction News—Bridges, Culverts, Viaducts.

**Bridges**.—State of Oklahoma. Bids for 6 bridges. See Construction News—Roads, Streets, Paving.

**Bridges**.—State of Maryland—Bids for 2 bridges. See Construction News—Bridges, Culverts, Viaducts.

**Bridge, etc.**—Natalie, Tex. See Construction News—Bridges, Culverts, Viaducts.

**Bridges**.—State of Missouri. Bids for 17 bridges. See Construction News—Roads, Streets, Paving.

**Bridges**.—Charleston, W. Va. Bids for 4 bridges. See Construction News—Bridges, Culverts, Viaducts.

**Cement, etc.**—Q. M. Ft. Reno, Okla.—Bids Dec. 17 for 800 bags cement, 50,000 ft. yellow pine lumber, 325 ft. pipe covering.

**Centrifugal Pump**.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Dec. 16 for centrifugal pump, delivery Philadelphia, Pa.

**Electric Lighting Fixtures**.—U. S. Engr. Office, Huntington, W. Va.—Bids Dec. 17 for electric lighting fixtures.

**Gasoline**.—Q. M. Supply Officer, Washington, D. C.—Bids Dec. 27 for 28,022 gal. motor gasoline.

**Grinders**.—Bd. of Engineer Equipment, Ft. Humphreys, Va., Bids Dec. 16 for electric bench grinder and 112-in. heavy duty electric grinder.

**Feed Water Heater**.—U. S. Engr. Office, Vicksburg, Miss.—Bids Dec. 16 for closed type feed water heater.

**Heating Systems**.—Treasury Dept., Office of Supervising Archt., Washington, D. C.—Bids Dec. 30 for labor and material for new heating systems in Buildings No. 4 and 15, Fort Monroe quarantine station, Cape Charles, Va.

**Levee**.—Bd. of State Engrs., New Orleans, Court Bldg., New Orleans, La.—Bids Jan. 2 for constructing 73,000 cu. yd. levee, State Line to Old River, left descending bank Red River, Bossier Parish, in North Bossier Levee Dist., approx. 18,800 ft. long.

**Linoleum**.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Dec. 17 for 200 sq. yd. linoleum, delivery Quantico, Va.

**Locks**.—Bd. of Levee Commrs., Orleans Levee Dist., New Court Bldg., New Orleans, La.—Bids Jan. 14 for furnishing all labor, material and equipment necessary for constructing locks in New Basin Canal south of R. E. Lee Boulevard and in Bayou St. John, south of Hibernia Ave.; W. B. Davey, Acting Ch. Engr.

**Machine Shop Equipment**.—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Dec. 20 for following: Motor driven sensitive drills, belt driven power press, band and bench saws, jointer, shaper, sharpener, band saw, belt driven sharpener and gummer machine, drilling and tapping machine, punch, shear and bar cutter machine; bids Jan. 7 for augers, wood-boring and screw driver bits, chisels, knives, scrapers, countersinks and drills and tungsten hack-saw blades.

**Machine Shop Equipment, etc.**—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Dec. 17 for motor boring, drilling and milling machine; Dec. 20 for milling machines and attachments; Jan. 7 for following: Reamers, taps, dies, tap wrenches and diestocks, hand operated wire rope cutting shear.

**Miscellaneous**.—Panama Canal, Office of Gen. Pur. Officer, Washington, D. C.—Bids Dec. 26 for following, Sch. 2512:

Post office furniture and fixtures, switchboards, flash light batteries, rectifiers, pressure gage tester, drying machine, floor-scrubbing machine, etc.

**Nainsook**.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Dec. 23 for 300,000 yd. nainsook, delivery Philadelphia, Pa.

**Paving**.—Savannah, Ga. See Construction News—Roads, Streets, Paving.

**Pipe (Terra Cotta)**.—Comms. Dist. of Columbia, Washington—Bids Dec. 16 for 15,000 ft. 10-in. and 10,002 ft. of 12-in. terra cotta pipe.

**Plumbing Supplies**.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Dec. 18 for plumbing supplies, delivery Quantico, Va.

**Pump**.—Office of Q. M. Ft. Howard, Md.—Bids Dec. 27 for horizontal centrifugal pump and deep well vertical turbine or plunger pump.

**Pumps**.—See Water Works.

**Reservoir**.—See Water Works.

**Riprap Paving**.—U. S. Engr. Office, Jacksonville, Fla.—Bids Dec. 26 for paving with riprap easterly end of Wards Bank Train-ing Wall, St. Johns River, Fla.

## INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

**Road.**—Throckmorton, Tex. See Construction News—Roads, Streets, Paving.

**Road.**—Birmingham, Ala. See Construction News—Roads, Streets, Paving.

**Road.**—Charleston, W. Va.—See Construction News—Roads, Streets, Paving.

**Roads.**—State of Missouri. Bids for 25 roads. See Construction News—Roads, Streets, Paving.

**Roads.**—State of Oklahoma. Bids for 10 roads. See Construction News—Roads, Streets, Paving.

**Road.**—Hempstead, Tex. See Construction News—Roads, Streets, Paving.

**Road.**—Office of Constructing Quartermaster, Fort Oglethorpe, Ga. Bids Dec. 27 for paving Dry Valley road.

**Roads.**—State of Texas. Bids for 2 roads. See Construction News—Roads, Streets, Paving.

**Roads.**—State of Virginia. Bids for 3 roads. See Construction News—Roads, Streets, Paving.

**Roadways, etc.**—Fort Sam Houston, San Antonio, Tex. See Construction News—Roads, Streets, Paving.

**Roofing Slate.**—Comms., Dist. of Columbia, Washington—Bids Dec. 20 for 80,000 pcs. 8x16 in. roofing slate.

**Saws, etc.**—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Jan. 7 for band, circular, hand, compass, cross-cut and miter box saws, hack-saw frames, and miter boxes.

**Seawall.**—Bd. of Levee Comms., Orleans Levee Dist., New Court Bldg., New Orleans, La.—Bids Jan. 7 for furnishing all labor, material and equipment necessary for constructing conc. seawall on shore of Lake Pontchartrain, from West End to Industrial Canal; W. B. Davey, Acting Ch. Engr.; E. C. Hyatt, Engr. in charge of work.

**Sewers.**—Bd. of Comms., Abilene, Tex.—Bids Dec. 20 for 4 mi. sanitary sewers up to 16-in. work includes laying pipe, rock excavation, manholes, rein. steel in piers, dry and wet excavation for conc. piers; draining ponds; furnishing and placing gages; clearing right of way, etc.; O. K. Hobbs, Engr.

**Sewers.**—City of Jasper, Tex., Garland Mayor.—Bids Dec. 19 for sanitary sewer system; work includes 8 mi. 6-in., 1 mile 8-in., sludge drying beds; hypochlorite disinfecting apparatus; small frame house; C. P. Hunter, City Engr.; G. L. Fugate, Engr.

**Sewers.**—H. B. Crawford City Mgr., Columbus, Ga.—Bids Dec. 20 for sewers as follows: Combined sewer of conc. and brick from 8th St. to River in 10th Ave., 8th St. and Fifth Ave.; approximate quantities: 48,000 cu. yds. excavation; conc. and brick sewer, from 48 to 72-in. diam. with necessary appurtenances; Combined sewer of conc. pipe from point west of 1st Ave. in 28th St. to River Outfall; 2400 cu. yds. earth excavation and fill; 100 cu. yds. rock excavation; 768 ft. of conc. pipe sewer, 18 in. in diam.; Class A conc.; conc. pipe connections; G. N. Mitcham, City Engr.

**Shoes (Russet).**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Dec. 16 for 14,500 pairs russet shoes, delivery Philadelphia, Pa.

**Slate Roofing.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Dec. 16 for 1200 slate shingles, delivery Quantico, Va.

**Sterilizer.**—U. S. Engr. Office, Vicksburg, Miss.—Bids Dec. 17 for chlorine water sterilizer.

**Streets.**—Birmingham, Ala. See Construction News—Roads, Streets, Paving.

**Street.**—Tuscaloosa, Ala. See Construction News—Roads, Streets, Paving.

**Tank and Tower.**—See Water Works.

**Water Works.**—City of Jasper, Tex., Garland Smith, Mayor.—Bids Dec. 19 for water works system complete with well and pumping plant; work includes water well complete with pump, motor and house; 500,000 gal. conc. reservoir, alternate 300,000 gal.; chlorinator; pump house; Venturi meter; two 1500 gal. per minute pumps; automatic starting and stopping control; 100,000 gal. elevated tank; 6 mi. of 2-in., 13 mi. of 6-in., 3 mi. 8-in., 1 mi. of 10-in. line; valves, hydrants, etc.; G. L. Fugate, Engr., Houston.

**Treated Lumber.**—H. L. Washburn, County Auditor, Houston, Tex. Bids Dec. 23 for treated lumber for Precinct No. 1; specifications from Charles B. Halle, County Engr.

**Voting Machines.**—Bd. of County Comms. of Pinellas County, E. H. Beckett, Chrmn., Clearwater, Fla.—Bids Jan. 7 for 5 or more automatic voting machines for primary, general or special elections.

## Trackson Distributors Appointed.

The Trackson Company, Milwaukee, Wis., announces appointment of the following distributors to handle its full line of equipment for the McCormick-Deering industrial tractor: H. W. Moore Equipment Co., Denver, Col.; Steel Products Corp., El Paso, Tex., to cover most of New Mexico and Arizona and the states of Chihuahua and Sonora, Mexico; Queen City Supply Co., Cincinnati, Ohio; and the Ohio Valley Truck & Equipment Co., Marietta, Ohio, covering the Parkersburg, W. Va., territory. These distributors will carry a full line of Trackson full-crawlers, loaders, shovels, cranes and bulldozers.

## Young Radiator to Double Capacity.

The Young Radiator Company, Racine, Wis., manufacturers of copper heat transfer products, reports that its production of industrial type internal combustion engine cooling radiators for trucks, power units, compressors, industrial machinery, hot water forced draft automobile heaters and new type forced draft heating units for factories and buildings, has reached its highest peak in the history of the company. Plans are under way to double the company's manufacturing capacity the coming year and much additional machinery has already been installed.

## Changes in Merco Nordstrom Personnel.

By order of the board of directors of the Merco Nordstrom Valve Company, San Francisco, several changes, effective January 1, will be made in the organization. Comfort E. Brown, Eastern divisional manager, will become vice president in charge of sales, continuing headquarters in New York City; C. C. Evernham, Western divisional manager, becomes purchasing agent in charge of all purchases, with offices in San Francisco. E. D. Rogers, Southern divisional manager, will become general sales manager, with headquarters also in the San Francisco office.

## Ohio Power Shovel at Road Show.

Space 305 at the 1930 Road Show to be held at Atlantic City, N. J., January 13 to January 17, inclusive, will be devoted to an exhibit of a complete Lima "101" gasoline shovel manufactured by the Ohio Power Shovel Company, Lima, Ohio. In the same booth there will be a lower frame completely assembled, showing its simplicity of design and construction, while a Lima "101" will be in actual digging operation on the beach near the Auditorium. This shovel is full Timken bearing and employs the single-line hoist principle.

## Hill Equipment Engineering Co.

The Hill Equipment Engineering Company, 4620 Delmar boulevard, St. Louis, Mo., has been organized by Lockwood Hill, for the past ten years a member of the Blackman Hill Company, St. Louis. The new organization will have exclusive sale of the products of the Lincoln Electric Company, Cleveland, Ohio, and the Baker Industrial Truck Division of the Baker-Rauling Company, Cleveland, in the St. Louis metropolitan district.

## Roger C. Boughton With McEverlast, Inc.

Roger C. Boughton, formerly gas distribution engineer of the Los Angeles Gas & Electric Co., has been appointed director of the pipe line department of McEverlast, Inc., Los Angeles, Cal., manufacturers of protective coatings. Mr. Boughton has served various gas and oil companies in many sections of the United States and in foreign countries.

## Jobbers to Distribute Falk Couplings.

The Falk Corporation, Milwaukee, Wis., recently adopted a new method of distributing Falk flexible couplings, heretofore limited to company branch houses and special agents in some of the larger cities. In future this product will be handled by distributors of mill machinery and electrical supplies throughout the country.

## Lorain Crane on Big Auditorium.

In construction of the big auditorium at Atlantic City, N. J., where the next annual meeting of the American Road Builders' Association will be held from January 13 to 17, a Lorain crane manufactured by the Thew Shovel Co., Lorain, Ohio, played an important part. There is a tie-up in this case between the type of crane used in construction of the building and the type the Thew company will exhibit at the Show, the latter being the Lorain-75.

## Annual Oakite Sales Conference.

The twenty-first year annual sales conference of Oakite Products, Inc., New York, was recently held in the general offices of the company with its field force of 110 district managers and representatives in attendance. Daily discussions covered many phases of cleaning work, papers being read on Paint Removing, Cleaning in the Dairy Industries, Cleaning Steel for Porcelain Enameling, Cleaning Oil Tank Cars, Selling to Bottlers and other subjects.

## Director Highway Sales of Heil Company.

The Heil Co., Milwaukee, Wis., manufacturers of tanks for various purposes, steel dump bodies and hydraulic hoists for motor trucks, have appointed C. N. Maurer director of highway sales division. Mr. Maurer, connected for the past ten years with the Wisconsin State Highway Commission, is a graduate mechanical engineer of the University of Wisconsin, a member of the Society of Automotive Engineers and Wisconsin Engineering Society, and holds membership in other industrial organizations.

## Advertising Florida Products.

The Florida Power and Light Company, Miami, is carrying a series of advertisements in 79 Florida newspapers published in communities served by that company; its purpose is to create a demand locally for Florida-grown and Florida-made products, in the belief that if such a demand is created, merchants will carry more of these products. Stimulation of Florida pride in Florida products will not only stimulate industries and business, it is thought, but will encourage those financially able to invest in local enterprises.



## Trade Literature

**Roller Chains.**—A 96-page book, No. 1237, illustrating and describing chains and wheels and presenting many pages showing practical applications of the Link-Belt roller chain on light and heavy duty industrial drives and on other types of machinery, tractors, trucks and farm implements, has been issued by the Link-Belt Company, Indianapolis, Ind.

**Motor Grader.**—Bulletin No. 1146, issued by the Austin-Western Road Machinery Co., Chicago, describes and illustrates the Austin 6-cylinder 12½-25 dual drive motor grader manufactured by the company. This new model, of a size between the Austin 10-20 and 15-30 dual drive motor graders, is engineered to utilize the full power of its engine and possesses unusual flexibility.

**Blasting.**—Devoted to an article by H. M. Hamilton, sales representative of E. I. du Pont de Nemours & Company, Inc., Wilmington, Del., entitled *Blasting on Highway Construction Projects*, the du Pont Explosives Service Bulletin for November is being distributed. These bulletins are prepared by technical experts of the company, and present latest information on the subjects treated.

**Fire Protection.**—Inasmuch as the character of fires differs, it is essential that fire extinguishers differ also, explains the American-LaFrance and Foamite Corporation, Elmira, N. Y., manufacturers of fire extinguishers, goggles, fire engines, etc. Essentials of fire protection are described in a new booklet published by the corporation, which presents a non-technical treatise on fire protection for all sorts of risks.

**Natural Gas for Southeast.**—The Southern Natural Gas Corporation, Birmingham, Ala., which is building a pipe line from the gas fields of Monroe, La., to Atlanta, is distributing a booklet outlining in a general way the possibilities of natural gas and describing specifically the activities of the corporation in construction of the proposed line, which includes 420 miles of main line and more than 400 miles of feeder and branch lines.

**Ceramic Roofing Tile.**—Embodying physical and mechanical qualities essential to practical construction, Peebles ceramic roofing tile has been developed, it is said, in response to a demand from architects specializing in the creation of homes of outstanding beauty. This tile and some of its uses are described and illustrated in a booklet issued by the Peebles Roofing Tile Co., Portsmouth, Ohio, manufacturers of the product.

**Daylighting and Airation of Industrial Buildings.**—Two booklets, "Industrial Daylighting," and "Industrial Airation," recently published by the Detroit Steel Products Company, manufacturers of Fenestra steel windows, offer a non-technical presentation of methods to predetermine the daylighting and airation of industrial buildings in advance of construction. Information in the books, which may be obtained from the company's office at 2250 East Grand Boulevard, Detroit, Mich., is based on seven years of experimentation by Fenestra engineers in co-operation with the Department of Engineering Research of the University of Michigan.

**Air Compressors.**—The O. K. Clutch & Machinery Co., Columbia, Pa., manufacturers of hoists, air compressors and portable elevators, is distributing a folder briefly describing salient features of this equipment and illustrating three air compressors being used day and night in construction of the Columbia-Wrightsville bridge over the Susquehanna River in Lancaster County, Pa. These compressors, having displacement of 120 cubic feet, operate two Cleveland H7 jackhammers.

**Taxicab Operation.**—The Parmelee Transportation Company, Chicago, is distributing a booklet presenting a study of the history and development of taxicab operation and a general history of the Parmelee organization which operates cabs through subsidiary companies in New York, Chicago, Pittsburgh and Cleveland, engaging 5,000 vehicles and 15,000 employees. It is understood that the Parmelee system will be extended to other cities.

**Gas Heating System.**—A booklet illustrating and describing the Hot-Kold gas fired central heating system manufactured by the General Iron Works Company, Cincinnati, Ohio, is being distributed. The system is claimed to effect economy of operation and installation as well as offering advantages of healthful, care-free automatic air conditioning. It is the result of seven years of scientific research and development.

**Arc Welding of Pipe Lines.** a pamphlet being distributed by the Lincoln Electric Company, Cleveland, Ohio, describes and illustrates the process of electric arc welding in construction of pipe lines. Development and general use of the process is said to have been furthered by the pioneering efforts of the Lincoln organization and the performance of Lincoln welding equipment in the field.

**Fort Worth.**—Outlining the progress of Fort Worth, Tex., during the two years ended September 30, a booklet compiled by O. E. Carr, city manager, is being distributed. The publication contains articles dealing with the airport, charter commission, engineering department, council-manager government, the police, park, purchasing, recreation and other departments, and also presents information on the development of other phases of progress.

**St. Louis Industrial Progress.**—A pamphlet is being distributed by the Industrial Bureau of the Industrial Club of St. Louis, covering by text and illustration two years of industrial progress in the St. Louis district. The publication covers monthly reports recording new industries established and expansions which have taken place.

**Ceramic Mosaics.**—Catalogue A issued by the Buckeye Tile Co., Chillicothe, Ohio, attractively illustrates various combinations of body and border designs in ceramic tiles, the colors being susceptible to change to suit the wishes of customers. Designs and arrangement of colors were made by Eugene J. Hysell.

**Tube-Turns Installation.**—Bulletin No. 105 issued by Tube-Turns, Inc., Louisville, Ky., describes the use of Tube-Turns in the new power plant of the Bureau of Standards, Washington, D. C. The boiler header piping as now installed is an all-welded system, making use of Tube-Turns, seamless drawn fittings.

**Moisture in Lumber.**—The Southern Pine Association, New Orleans, is distributing a new moisture content booklet. It explains the moisture content provisions as adopted by Southern Pine Association subscribers and incorporated standard grading rules for Southern pine lumber, defining limitations in the way of maximums of moisture content permissible in different grades and items.

**Building Construction.** by Prof. W. C. Huntington, University of Illinois, a recent book designed primarily for senior engineering students, should prove of value also to building inspectors, superintendents and draftsmen, as well as those in the lumber industry desiring to keep informed on this subject.

**Westinghouse Insulators.**—A circular in pamphlet form, "Westinghouse Apparatus Insulators," has been issued by the Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa. It describes outdoor apparatus insulators, which have a broad application for assembling switchgear apparatus, such as bus supports, disconnecting switches, etc. It also gives test data.

### N. & W. Coal Bureau in Detroit.

The Norfolk & Western Railway Company, Roanoke, Va., has opened a new Coal Bureau in Detroit, to render aid to coal producers in the territory served by the railroad. Success of a similar bureau established in Chicago in April is said to have led to establishment of the Detroit bureau, located at 942 Book Building. Its opening conforms to the Norfolk and Western policy of working consistently for development of its territory. N. C. Davis, formerly assistant car distributor at Williamson, W. Va., has been appointed district manager of the bureau.

### \$1,150,000 Drainage Project

Bids will be opened December 17 by the Division of Sewers and Paving, St. Louis, Mo., for section F of the River Des Peres drainage works, construction to be let on unit price bids. The project embraces approximately one mile of 32-foot reinforced concrete sewer built to a considerable extent in the bed of the present stream, and also involves the construction of junction chambers, intakes and other special structures. Its cost is estimated at \$1,150,000. W. W. Horner is the chief engineer of sewers and paving.

### Louisville to Expend \$6,512,000

Louisville, Ky.—A survey by Mayor William B. Harrison indicates a total of \$6,512,000 will be expended in this city during 1930 for public improvements, the expenditures to be divided among sewer improvements, schools, water supply, general construction and grade crossings. A major sewer improvement will involve the construction of the Southern outfall, to cost \$1,500,000, while the chief item in the school program will be the construction of the Crescent Hill high school costing \$600,000.

## Alabama's New Industrial Survey Published in Book Form

A survey of the State of Alabama by the Alabama Industrial Board, Birmingham, just off the press, covers the state in a comprehensive manner without going too greatly into details. The introduction is a particularly good summary of the resources of the state and their interrelation in its economic scheme. Starting with single resources such as coal, iron ore and limestone, fertile farm lands and some of the principal crops, the timber and the reasons for its rapid growth, the introduction builds all of them up into an integrated industrial area served by a network of power lines, railways, highways and a remarkable system of navigable waterways. It is well worth reading by anybody interested either in Alabama as a state, or in the factors on which rapid industrial growth may be built.

Following the introduction are 122 pages of text, statistical tables and maps. The state is briefly described historically, by analysis of population, geologically, topographically and climatically, maps being freely used to show not only geology and topography but rainfall, distribution of population and soils. Forest resources and industries based thereon are given ten pages. We read that the remaining timber stand of the state, about 45,000,000,000 board feet, is almost evenly divided between conifers, the so-called soft woods, and broad leaved trees, or hard woods, and that more than 20 per cent of the state's wage earners are employed by forest and forest-products industries; that paper manufacturing has become important; and that the jobs of these workers are safeguarded by a developing forestry department and enlightened forest tax laws.

There are listed and described 34 minerals which "have been thoroughly prospected but not exhaustively tested." Maps show their occurrence.

The section on manufactures, based on United States Census reports, shows that in 1927 raw materials purchased for \$317,493,407 were converted into finished products worth \$550,372,126, while a diagram shows that iron and steel products dominate the industrial life of the state with 32 per cent of the total value, while textiles come second with 16 per cent; lumber and allied products, third with 14 per cent and chemicals, foods, railroad repair shops, machinery, paper, printing and related industries, stone and clay and miscellaneous other industries make up the balance.

Under the caption "Labor" we read that "A great and desirable supply of

potential industrial labor exists among the rural population of the state. The whites of this population are almost entirely native born, generally of Anglo-Saxon extraction, and are not only ready and anxious for industrial employment, but prove intelligent and loyal in the performance of their work."

We find, also, that while iron and steel products have a value almost double that of the textile output, the latter requires 28,456 workers compared with only 24,045 for iron and steel, and that 119,093 persons employed in manufacturing in 1927 received wages of \$105,488,817.

The section on fuels states that an annual production of 20,000,000 tons "of coal from unlimited reserves is available to industries," while manufactured gas is, and natural gas soon will be, available. The combination of abundant coal resources with great potential water power resulted in a greater capacity for generating electric power in 1928 than for any other state in the Southeast, the survey states.

It has been estimated that in about 75 per cent of all industries the nature of the water used has an important bearing on the quality of the product. Accordingly, a section of this survey is devoted to the subject, and a table of analyses of representative waters is included.

The railways of the state come in for a description, and a map shows the remarkable degree to which the industrial sections are served by navigable waterways that converge at Mobile, where a state-owned system of modern docks, recently completed, gives Alabama one of the most up-to-date harbors in the country. Highways and air lines, completing the transportation system of the state, are also discussed.

Markets, low taxes, a good and improving school system, a public health service that has won international renown, and an appendix of statistical tables complete the compilation.

### Portable Outfit Devised for Precooling Fruits

A device to enable fruit growers and shippers to convert an ordinary refrigerator car into a "precooling plant" has been perfected by workers of the United States Department of Agriculture. Its use allows the fruit to be loaded directly in the car from the packing house, saving the cost of extra handling incident to a trip to a precooling plant.

This portable device weighs only 85 pounds and consists of a small electric motor and a high-speed blower. It has

been used for pre-cooling strawberries in North Carolina and Florida, and for peaches in Georgia; and more recently in precooling citrus fruits in Florida. The portable feature is especially important. Because of simple construction the cost of a complete outfit is less than \$250 and total operating cost for pre-cooling a car of strawberries should not exceed \$5, states the Department.

Assembling of these outfits has been started on a small scale by a commercial concern. However, the device is covered by a public-service patent, and anyone who cares to may assemble his own unit.

### TO EXPORT CARBON BLACK

#### Company Organized to Represent Leading American Producers of the Commodity

The Carbon Black Export Association has been formed by companies producing about 92 per cent of the world's carbon black for the purpose of promoting the interests of American manufacturers in foreign fields. Officers of the new association, which was incorporated in Delaware, are: Norman L. Smith, of Binney & Smith Co., New York, president; Edmund Billings, of Godfrey L. Cabot, Inc., Boston, Mass., vice-president; R. H. de Greoff, of R. W. de Greoff & Co., secretary; G. A. Williams, of the Union Carbon Co., Charleston, W. Va., treasurer, and H. W. Huber, of J. M. Huber Co., New York, assistant treasurer. These officers, with John W. Herron of the Palmer Gas Products Co., Shreveport, La., will form the board of directors.

Companies represented in the incorporation are: The Columbian Carbon Co., Coltexo Corp., Keystone Carbon Co. and Texas-Louisiana Carbon Black Co. represented by Binney & Smith Co. The United Carbon Co., Charleston, including its subsidiaries, the Kosmos Carbon Co., Eastern Carbon Black Co., and Crystal Carbon Co.; Godfrey L. Cabot, Inc., Boston, including the Texas Gulf Carbon Co., Cabot Co., Cabot Carbon Co. and Gas Products Co.; J. M. Huber, Inc., New York, including J. M. Huber Co. of Louisiana, Inc., Ebony Carbon Co., Weston Carbon Co., and the J. M. Huber Pigment Co.; associated carbon black interests of the Palmer Corp., Shreveport, and the Electric Bond & Share Co., New York, represented by the Palmer Gas Products Corp., and the interests of the Texas Carbon Industries, Inc., by R. W. de Greoff & Co.

Corpus Christi, Tex., Theo. Koester, city secretary, votes December 23 on a bond issue of \$215,000, including \$115,000 for streets, \$20,000 for parks, \$80,000 for construction of an incinerator, \$10,000 for sanitary sewers and \$10,000 for storm sewers.



# LEADITE

Trade Mark Registered U.S. Pat. Office



Melting *Leadite* prior to pouring joint.



"Yarning" joint with Braided Hemp.



Pouring the *Leadite* joint.

## 237.41 Miles of Water Mains in Flint, Mich. —Jointed with LEADITE

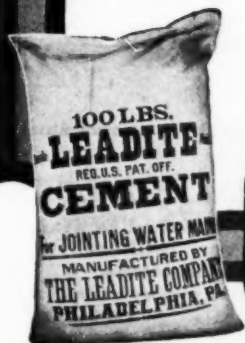
Another example of the widespread use and effectiveness of *Leadite* is the City of Flint, Michigan, of which Mr. E. L. Holloway is Superintendent, Board of Water Commissioners. This City has used *Leadite* for jointing 237.41 miles of cast iron water mains, ranging in sizes from 4" to 30" in diameter. The average working

pressure is 75 pounds per square inch, but they have tested *Leadite* joints as high as 150 pounds pressure.

The tightness of their water system is indicated by their accounting for more than 90% of water delivered through Master Meter, which they feel is "very satisfactory."

*The pioneer self-caulking material for c.i. pipe.  
Tested and used for over 30 years.  
Saves at least 75%*

THE LEADITE COMPANY  
Land Title Building - - Philadelphia, Pa.



# No Caulking'



# FINANCIAL NEWS

## Bond Issues Proposed

Ala., Birmingham—City Comm., J. M. Jones, Jr., Pres., plans calling election before Feb. 15 on \$4,000,000 bonds: \$3,000,000 for first unit of storm drainage to eliminate floods in low lying sections; \$1,000,000, airport; A. J. Hawkins, City Engr.

Ala., Birmingham—Public Improvement—City, C. E. Armstrong, Comptroller, receives bids Dec. 17 for \$310,000, 4½, 4¾ and 5% \$1,000 denom. bonds.

Ark., Conway—Bd. of Directors of Conway Corp., plans \$215,000, 6% bond issue for schools.

Ark., Fort Smith—City defeated \$279,000 bond issue: \$100,000, fire dept. equipment; \$25,000, buildings; \$100,000, street; \$54,000, sewer; W. L. Winters, Engr. 10-24

D. C., Washington—Washington Suburban Sanitary Comm., T. Howard Duckett, Chmn., 804 Tower Bldg., Fourteenth and K St., N. W., Washington, receives bids Dec. 18 for \$250,000, 4½% bonds.

Fla., St. Augustine—City, Bd. of Bond Trustees plans selling \$135,000 refunding bonds at private sale early in 1930.

Georgia—State of Georgia, L. G. Hardman, Governor, Atlanta, receives bids Dec. 15 for \$2,000,000 highway warrants.

Ga., Camilla—Camilla Consolidated School Dist., J. D. Whiting, Sec.-Treas., voted \$115,000 bonds.

Ga., Macon—City, G. Glen Toole, Mayor, considering \$2,000,000 bond election in Jan.: \$150,000, incinerator and garbage collection equipment; \$60,000, sanitary sewers; \$750,000, storm sewers; \$300,000, paving and repaving; \$100,000, street widening; \$100,000, parks and improvements.

Ky., Owensboro—Davies County Bd. of Education, J. W. Snyder, Supt., considering \$100,000 bond issue.

La., Athens—Claiborne Parish School Bd., John E. Gray, Pres., Homer, did not sell \$100,000 bonds. 10-31

La., Bastrop—Morehouse Parish School Bd., T. E. Barham, Pres., receives bids Jan. 7 for \$250,000 not to exceed 6% bonds. 11-21

La., Many—Sabine Parish School Bd., G. C. Reeves, Sec., receives bids Jan. 2 for \$45,000 bonds.

La., New Orleans—Bd. of Levee Comms., New Orleans Levee Dist., Chas. J. Bonner, Sec., considering selling \$6,000,000 lake shore improvement bonds. 11-14

La., Ponchatoula—Bd. of Comms., Gravity Drainage Dist. No. 2, J. H. Inman, Sec., receives bids Dec. 31 for \$240,000, 5% bonds. Lately noted received no bids for bonds. 10-31

Miss., Itta Bena—Itta Bena School Dist. voted \$50,000 bonds. 11-21

Mo., Campbell—City, R. M. Jones, Clk., votes Dec. 17 on \$25,000 distribution system and power house bonds. 12-5

N. C., High Point—City Council plans advertising for bids in Dec. for \$1,500,000 bonds to retire short term notes, issued in anticipation of sale of water and sewer bonds.

N. C., Raleigh—Airport—City probably vote soon on \$50,000 bonds.

N. C., Winton-Salem—Forsythe County Comms., J. M. Lentz, Clk., receive bids Dec. 16 for \$60,000, not to exceed 6% bond anticipation loan notes.

N. C., Waynesville—School Refunding—Haywood County Comms., W. H. McCracken, Clk., did not sell \$11,000, 6% bonds; receive bids Dec. 21 for bonds. 11-21

Okla., Oklahoma City—City votes Dec. 16 on \$2,150,000 bonds; J. R. Barton, City Supt. of Schools.

Okla., Tulsa—City, Dan W. Patton, Mayor, may call election for Dec. 31 on \$7,658,561

bonds: \$2,000,000, street; \$175,000, heavy trafficway; \$400,000, widen Arkansas River Bridge; \$1,600,000, sewers; \$600,000, parks; \$800,000, municipal airport; \$40,000, traffic signal system; \$475,000, fire dept., etc; \$75,000 municipal hospital; \$1,000,000, convention hall and auditorium; \$50,000, addition to city court bldg.; \$100,000, municipal building; \$20,000, police sub-stations; \$595,000, library and branches; K. R. Teis, City Engr. 10-17

Tenn., Chattanooga—Hamilton County, Will Cummings, County Judge, receives bids Jan. 16 for \$1,650,000 general improvement bonds. Lately noted bids Jan. 10. 12-5

Tenn., Johnson City—City, W. B. Ellison, Mayor, votes Mar. 6 on \$300,000 bonds; \$200,000 viaduct approaches; \$100,000, school. 11-28

Tenn., Lewisburg—City voted \$50,000 bonds: \$38,000, street and sewerage; \$12,000, refunding.

Tenn., Lexington—Henderson County Court will issue \$350,000 refunding road bonds: \$115,000, 5%; \$235,000, 6%.

Tex., Angleton—Road—Brazoria County considering \$4,500,000 bond issue. 11-14

Tex., Beaumont—Courthouse—Jefferson County, B. B. Johnson, County Judge, plans receiving bids soon for \$1,000,000 bonds. 8-22

Tex., Brownsville—Irrigation—Cameron County Water Improvement Dist. No. 14, L. P. Stover, Pres., voted \$1,650,000 bonds. 10-3

Tex., Columbus—Sewer—City, R. Lee Hastedt, Mgr., voted \$50,000 5% \$500 denom. bonds. 11-14

Tex., Corpus Christi—Road—Nueces County Comms. Court, Roy D. Clift, County Clk., receives bids in about 60 days for \$625,000 of \$2,500,000 bonds recently voted. 10-24

Tex., Del Rio—Del Rio Independent School Dist. contemplates bond election.

Tex., Donna—Funding—City votes Dec. 19 on \$153,666, 6% bonds.

Tex., Fairfield—Fairfield Independent School Dist. plans bond election.

Tex., Fort Worth—Highway—Tarrant County rejected bids for \$2,700,000, 4½% bonds. 10-31

Tex., Garden City—School—Glasscock County votes Dec. 17 on \$40,000 bonds.

Tex., Groesbeck—Road—Limestone County Comms. considering \$1,000,000 bond issue.

Tex., Jacksboro—Jacksboro Independent School Dist., Works Porter, Pres., receives bids Dec. 20 for \$49,000, 5% bonds.

Tex., LaPorte—City, F. W. Reynolds, Mayor, voted \$100,000 bonds: \$70,000, sewer; \$15,000, water works extension; \$10,000, city hall, fire stations; \$5,000, streets; plans selling bonds; J. H. Rafferty, City Engr. 11-7

Tex., Lockney—Funding—City voted Dec. 17 on \$40,000 bonds.

Tex., Lockney—City votes Dec. 17 on \$40,000 bonds for municipal auditorium and community center.

Tex., Marlin—Falls County Road Dist. No. 4 considering \$446,000 bond election.

Tex., Sonora—Road—Sutton County considering \$200,000 bond election.

Tex., Sulphur Springs—Road—Hopkins County, J. J. Murray, Treas., did not sell \$600,000 5% Series K bonds. 10-31

Tex., Sweetwater—School Bd., B. H. McLain, Supt., plans about \$200,000 bond election. 11-28

Tex., Temple—Road—Hebron School Dist. Bell County voted \$8,500 bonds.

Tex., Tyler—Hospital—Smith County, Will D. Pace, Judge, defeated \$200,000 bond issue. 10-31

Tex., Weslaco—Irrigation—Hidalgo County Water Improvement Dist. No. 5, H. V. Watts, Sec., North Ave., Donna, votes Dec. 28 on \$90,000 bonds for irrigation. 11-21

Va., Virginia Beach—Town, Charles E. Barco, Mayor, voted \$50,000 bonds, for street and sewer improvement. 10-24

West Virginia—Bridge—State, Howard M. Gore, Governor, plans selling, early next year, \$10,000,000 to \$13,000,000 bonds, to acquire and build toll bridges.

W. Va., Parkersburg—City, Allen C. Murdoch, Mayor, considering bond issue for fire-fighting equipment.

## Bond Issues Sold

Ala., Dothan—City Council, I. P. Scarborough, Clk., sold \$75,000 refunding and \$90,000 general obligation bonds, jointly, to Steiner Bros., and Marx & Co., both Birmingham, at slightly below par.

Ga., Forsyth—School—Monroe County Comms., J. H. McCowen, County Clk., sold \$75,000, 5%, \$1000 denom. bonds to H. H. Hardin, Forsyth, at \$80,010 and accrued interest. 11-28

Ky., Dayton—Incinerator—City, Frank J. Staab, Clk., sold \$35,000, 5%, \$1000 denom. bonds to Bank of Dayton at \$35,050 and accrued interest. 11-28

La., Houma—Sewerage Dist. No. 1, Druex Angers, City Clk., sold \$193,000 bonds to syndicate composed of Caldwell & Co., Nashville, Hibernia Securities Co., Interstate Trust & Banking Co. and Whitney Central Trust & Savings Bank, all New Orleans. 11-21

Miss., Magnolia—Pike County Bd. of Suprs., Charles E. Brunfield, Clk., sold \$12,000 loan warrants to First National Bank of McComb at par.

Miss., Meridian—School—Lauderdale County Bd. of Suprs., J. B. Holland, Clk., sold \$30,000 short term loan warrants to Bank of Quitman, Quitman, Miss. 11-21

S. C., Charleston—Paving—City, Thomas P. Stoney, Mayor, sold \$75,000, 4½%, \$1,000 denom. bonds to Caldwell & Co., Nashville, \$73,147. 11-21

Tex., Texarkana—School Bd., H. W. Stil-

(Continued from page 94)

## NEW FALL NUMBER of the American Bank Reporter DESK EDITION NOW AVAILABLE

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**BALTIMORE COMMERCIAL BANK**

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39 SOUTH LA SALLE ST., CHICAGO

# FINANCIAL NEWS

(Continued on page 96)

well, Supt. of Public Schools, sold \$225,000 bonds at 99.15, to State National Co., subsidiary of State National Bank of Texarkana. 11-14

## Building and Loan Associations

Md., Baltimore — Participating Building Assn. of Maryland, 1209 Fidelity Bldg., chartered; Hugh F. Watts, Calvert & Redwood Sts.

Tex., El Paso—Liberty Loan Co., Inc., capital \$15,000, chartered; Abe and Ruth Levy, 2815 N. Florence St.

## New Financial Corporations

La., Monroe—Southern Bond & Share Corp., chartered; Allan Sholars, 1006 Riverfront St.

La., New Orleans—Progressive Investment Corp., chartered; J. H. Saenger, 1401 Tulane Ave.

Mo., St. Louis—Heunisch Investment Co., capital \$20,000, chartered; Albert A. Heunisch, Wheeling, W. Va.; E. Jensen, Webster Groves, Mo.

N. C., Greensboro—North Carolina Corp.

of Greensboro, capital \$250,000, chartered; W. S. Ryland, L. B. Grainger, Alan T. Bowler.

N. C., Trinity—Guaranty Investment Corp. of Trinity, capital \$50,000, chartered; Braxton Craven, Frank McDowell, both Trinity; Richard R. Johnson, New York.

Okla., Oklahoma City—Clabel Investment Co., capital \$25,000, chartered; C. F. and C. C. Anderson, 2231 W. 13th St.

Okla., Tulsa—Home State Finance Corp., capital \$12,500, chartered; George, Charles and Hattie Delfield, Sapulpa.

Tex., Anton—Anton State Bank, capital \$25,000, opened; L. W. Clark, Pres.

Tex., Brady—McCullough County Finance Corp., chartered; Evans Adkins, Dan Huffer, E. Sherman.

Tex., Houston—Home Bond & Mortgage Co., chartered; George T. and Philip H. Brown, L. L. Svoboda.

W. Va., Huntington—Huntington Trading & Investment Co., capital \$25,000, chartered; C. W. Watts, Kenwood Park Hills.

Citizens & Southern National Bank, Wm.

Murphey, Pres., Atlanta and Savannah, Ga., acquired Atlanta Trust Co., A. J. Orme, Pres., Atlanta.

Franklin-American Trust Co., James L. Ford, Jr., Pres., and Real Estate Mortgage Trust Co., Lawrence E. Mahan, Pres., both St. Louis, Mo., plan merging as Franklin-American Co.

Franklin Guaranty Bank, F. L. Wallace, Pres., Johnson City, Tenn., plans increasing capital \$65,000 to \$100,000.

Gretna Trust & Savings Bank, Jules G. Fisher, Pres., and Jefferson Trust & Savings Bank, J. R. Meyers, Pres., both Gretna, La., consolidated with deposits of about \$2,700,000.

Karnes County National Bank, Thos. Ruckman, Pres., purchased State National Bank, H. J. Niehaus, Pres., both Karnes City, Okla.

People's State Bank of South Carolina, Harry Cary, Executive V.-P., Columbia, S. C., plans increasing capital \$500,000 to \$1,000,000.

People's National Bank, J. M. Brownfield, Pres., Home Savings Bank, C. D. Conaway, Pres., and Fairmont Trust Co., Smith Hood, Pres., all Fairmont, W. Va., merged as Union National Bank of Fairmont, with \$420,000 capital stock.

## Consolidated Banks to Erect Addition to Building

Atlanta, Ga.—Arrangements have been completed by the Citizens & Southern National Bank for the purchase of the Atlanta Trust Company and the Atlanta Trust Building in this city. In addition, the Citizens & Southern acquired a 99-year lease on a strip of land just east of the present location which will provide a frontage of 83 feet on Marietta and Walton streets. The building now fronts 58 feet on Marietta street and 40 feet on Walton. Plans are under way for an addition, which will increase the size of the present structure about 50 per cent and extend for more than 200 feet along Broad street. The present structure will be renovated and new elevators installed to serve the enlarged building. Assets of the Atlanta Trust Company are estimated at more than \$8,000,000 and those of the Citizens & Southern at more than \$85,000,000, exclusive of affiliated institutions.

## Bidders on \$400,000 Hospital Building

The following contractors are estimating on the general contract for a \$400,000 ward building to be erected at Catonsville, near Baltimore, for the Spring Grove State Hospital for Insane, bids to be opened December 19: Henry L. Maas & Sons, Inc., Price Construction Co., M. A. Long Co., David M. Andrew Co., Cogswell-Koether Co., P. C. Street Engineering Co., Davis Construction Co., North-Eastern Construction Co., Charles L. Stockhausen Co., Edward G. Turner, Thomas Hicks & Sons, Inc., Consolidated Engineering Co., Inc., all of Baltimore, and the National Construction Co., Washington, D. C. The building will be T-

shaped, 300 by 110 by 52 feet, two stories, of stone construction, with concrete floors, slate roof and steel sash. Henry Powell Hopkins and Allan T. Burton are the architects, and James Posey, mechanical engineer, all of Baltimore.

## \$250,000 Expenditure for Power Facilities by Utility Company

Harpers Ferry, W. Va.—Plans are being considered by the Harpers Ferry Electric & Power Co. for improvements to cost approximately \$250,000 and it is understood that engineers are at work on drawings.

## Protective Tariff Vital

J. E. Bell, Secretary-Manager, Chamber of Commerce, San Benito, Texas, writes:

"I especially wish to commend your views and stand on the tariff question. This is vital to the people of this particular section, and in my opinion to the agricultural interests of the entire South."

## Votes \$3,305,000 Bonds

Port Arthur, Tex.—Port Arthur recently voted a bond issue of \$3,305,000, including the following items: Street improvements, \$580,000; filling in Thomas boulevard ditch, \$275,000; pumping station, \$5000; rebuilding reservoir levees, \$15,000; extending water mains, \$63,500; extending sewer lines, \$36,500; park improvement, \$30,000; pleasure pier bridge, \$300,000; construction of seawall, \$2,000,000. The City Commission was authorized to extend the city limits to take in Griffing, Del Mar, Edgemore and Lakeview additions.

## \$1,650,000 Drainage Bonds

Brownsville, Tex.—A bond issue of \$1,650,000 has been voted by Cameron County Water Improvement District No. 14 to construct an irrigation and drainage system. The bonds will bear a 6 per cent interest rate and are expected to be sold at once. Lute P. Stover is the president of the district and S. K. Hallam, secretary.

## New Building for Rayon Plant

Roanoke, Va.—The Viscose Corporation of Virginia is erecting a \$150,000 building to provide additional working space. The structure is of the sawtooth type, 165 by 180 feet, and of brick construction. John P. Pettyjohn & Son, Lynchburg, is the general contractor, and the Virginia Bridge & Iron Co., Roanoke, is furnishing the steel. No new equipment will be required.

## Installment Buying and Selling

The Domestic Commerce Division has revised its list of references on "Installment Buying and Selling" to supplement original statistics being gathered through its national credit survey. These deal with such subjects as the economic and social phases of installment buying, losses incurred, laws affecting installment selling, collection policies, repossession, and installment merchandising of specific commodities. Because numerous business contacts state they find this reading list convenient and practical for their varied uses a limited supply has been made available for general distribution. Copies may be obtained from the Domestic Commerce Division or any district office of the Bureau of Foreign and Domestic Commerce.



### World Cotton Industry

Manchester, England.—The following reports regarding the state of the cotton industry have been received from the various countries which are members of the International Cotton Federation:

**Austria:** Market conditions are more unfavorable. Spinners' losses have not disappeared. Organized short time had to be increased. The number of spindles in Austria has been reduced by 8 per cent in 12 months. A large number have been dismantled, and exported to other countries. Weaving has been unsatisfactory.

**Belgium:** There has been no improvement since the last report. Owing to the fact that Belgium has to export the major portion of its production, spinners and manufacturers have been obliged to accept very poor prices in order to avoid short time.

**England:** Curtailment of production in the American section is approximately 20 per cent and that of the Egyptian section 5 per cent. Regarding the weaving section, statistics show there are slightly fewer looms running than before the wage stoppage took place. The end of the depression does not yet appear to be in sight. Manufacturers are taking more interest than formerly in new methods and it is hoped that the alterations in manufacturing conditions which

are going forward will bring our industry to a better competitive position.

**France:** The American spinning section has shown a slight improvement. The Egyptian section is worse. As regards woven goods the situation is slightly better than in the spinning section. Fifteen per cent of the looms and 10 per cent of the spindles are stopped.

**Germany:** The hours worked in the German cotton spinning industry during the third quarter were about two-thirds of the normal working week. Selling prices are still below cost.

**Holland:** Prices are still very poor and spinners complain of insufficient margins. Cloth orders for export can in many cases only be obtained by sacrifices in prices. The home trade section has been busier.

**Italy:** The industry has still sufficiently regular work. The stocks per spindle and engagements may be considered normal, but sales are taking place with a very limited margin of profit or even none at all.

### Bids on \$1,500,000 Hospital

Lexington, Ky.—Bids will be opened January 14 by the Construction Division of the United States Veterans Bureau, Washington, D. C., for buildings and

utilities, including roads, walks and drainage, for the U. S. Veterans Hospital here, to cost about \$1,500,000. Separate bids will be received on the following work: General construction, including plumbing, heating and electrical work and oil burning equipment; electric elevators; refrigerating and ice making plant; steel water tank and tower, and a radial brick chimney. A boiler plant and incinerator will be installed.

### Realtors Oppose Outdoor Advertising

The National Association of Real Estate Boards four years ago went on record as opposed to outdoor advertising of such a nature that it destroys scenic beauty and lowers property values. At the annual convention held last June in Boston a resolution was passed asking the Department of Commerce to make a survey of present outdoor advertising, and now the Outdoor Advertising Association is endeavoring to harmonize billboard interests, civic improvement projects, and those organizations seeking to protect property values.



## PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close December 21, 1929.

U. S. Engineer Office, Wilmington, N. C. Sealed bids, in duplicate, will be received until 12 o'clock noon, December 21, 1929, and then publicly opened, for furnishing all labor and materials and performing all work for dredging approximately 2,976,000 cubic yards in Section IV of the Intracoastal Waterway from Beaufort to Cape Fear River, N. C.

Bids close January 2, 1930.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., December 4, 1929.—SEALED BIDS will be opened in this office at 3 P. M. January 2, 1930, for remodeling and enlarging the U. S. Postoffice at Bridgeton, N. J. Drawings and specifications may be obtained from the custodian of the building or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

Bids close December 30, 1929.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., November 29, 1929.—SEALED PROPOSALS will be opened in this office at 3 P. M. December 30, 1929, for furnishing all labor and material required for new heating systems in buildings Nos. 4 and 15 at the Fort Monroe Quarantine Station, Cape Charles, Va. Drawings and specifications may be obtained from the custodian at the quarantine station or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

Bids close January 14, 1930.

SEALED BIDS, in triplicate, subject to the conditions contained herein, will be received by the U. S. Veterans Bureau, Room 764, Arlington Building, Washington, D. C., until 11 A. M. January 14, 1930, and then publicly opened for furnishing all labor and materials and performing all work required for U. S. VETERANS' HOS-

PITAL, LEXINGTON, KENTUCKY, for CONSTRUCTION OF BUILDINGS AND UTILITIES, including roads, walks, and drainage. This work will include excavating, reinforced concrete construction, hollow tile, brickwork, limestone, architectural terra cotta, marble work, floor and wall tile, rubber tile and linoleum floors, iron work, steel flag pole, steel sash, steel stairs with slate treads, metal stall partitions, slate, metal and built-up roofing, roof ventilators, skylights, metal lathing, plastering, sound deadening, carpentry, dumb waiter, platform scales, metal weatherstrips, insect screens, window shades, painting, glazing, hardware, plumbing, heating, boiler plant, incinerator, radial brick chimney, electrical work, electric elevators, refrigerating and ice making plant, steel water tank and outside sewer, water, gas, steam and electric distribution systems. SEPARATE BIDS will be received for (a) General Construction (including the plumbing, heating and electrical work and oil burning equipment); (b) Electric Elevators; (c) Refrigerating and Ice Making Plant; (d) Steel Water Tank and Tower, and (e) Radial Brick Chimney, all as set forth on bid form. Bids will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract and in making awards, the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. At the discretion of the Director, drawings and specifications may be obtained upon application to the Construction Division, Room 764, Arlington Building, Washington, D. C. Deposit with application of a check or postal money order for \$80.00 payable to the TREASURER OF THE UNITED STATES is required as security for safe return of the drawings and specifications within ten days after date of opening bids. FRANK T. HINES, Director. December 10, 1929.

Bids close December 23, 1929.

### Bridges

DEPARTMENT OF PUBLIC WORKS  
STATE OF MARYLAND  
STATE ROADS COMMISSION

#### NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building Bridges as follows:

Kent County. Contract K-37-A. Double leaf bascule span (60 ft. 0 in. clear channel) for the bridge over the Chester River at Maple Avenue in Chestertown. The bascule piers are being built under a separate contract.

Anne Arundel County. Contract AA-70. Single span steel girder bridge on concrete piers (45 ft. 4 in. span) under the tracks of the Chesapeake Beach Railroad on the road from Hill's Bridge to Sunderland at Fisher Station, will be received by the State Roads Commission, at its offices, Federal Reserve Bank Building, Calvert and Lexington Sts., Baltimore, Maryland, until 12 M. on the 23rd day of December, 1929, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 6th day of December, 1929.

G. CLINTON UHL, Chairman.  
L. H. STEUART, Secretary.

Bids close December 31, 1929.

### Virginia Highway Work

#### DEPARTMENT OF HIGHWAYS

Richmond, Virginia.

The Commission will receive bids on:

Project	Length	Types
S191FI	0.7 Mi.	Gr. & Dr.
S349C	1.9 Mi.	Gr. & Dr.
F488A	2.2 Mi.	Macadam

Details obtainable on request.

Bids close January 7, 1930.

### Concrete Sea Wall

BOARD OF LEVEE COMMISSIONERS,  
ORLEANS LEVEE DISTRICT,  
NO. 201 NEW COURT BUILDING,  
NEW ORLEANS, LOUISIANA.

New Orleans, La., Dec. 6th, 1929.

Sealed proposals will be received at the office of the Board of Levee Commissioners of the Orleans Levee District, at New Orleans, Louisiana, TUESDAY, Jan. 7th, 1930, at 8:00 O'clock P. M., and then publicly opened for furnishing all labor, material and equipment necessary for the construction of a concrete sea wall on the shore of Lake Pontchartrain, from West End to the Industrial Canal.

A deposit of \$50,000.00 (Fifty Thousand Dollars) in cash, or certified check will be required with each proposal. No bid bond will be accepted. A surety bond to the amount of 50% of the cost of the contract will be required with notarial contract.

Plans and specifications are on file in the office of the Board of Levee Commissioners of the Orleans Levee District either Suite No. 201 New Court Building, or 606 Common St., New Orleans, Louisiana and will be furnished to prospective bidders upon application.

The right is reserved to reject any or all bids and to waive informalities.

Plans and specifications will be furnished to prospective bidders upon payment of \$100.00 (One Hundred Dollars) which will not be refunded.

No alternate plans, or propositions, other than the one requested by this advertisement will be considered.

For further information, address W. B. Davey, Acting Chief Engineer, or E. C. Hyatt, Engineer in charge of the work.

A. L. SHUSHAN,  
President.

CHAS. J. DONNER,  
Secretary.

Bids close January 21, 1930.

### Notice To Contractors

#### POSTPONEMENT DATE RECEIVE BIDS

Baton Rouge, La.

Notice is hereby given by the Louisiana Highway Commission, Louisiana National Bank Building, Baton Rouge, Louisiana, that the date for receiving bids for construction of the projects listed below has been postponed from 11 A. M. December 10, 1929, to 11 A. M. Tuesday, January 21, 1930.

STATE PROJECT 1151. OBERLIN-KINDER HIGHWAY, Allen Parish, Route No. 24. Length 7.0 miles. Concrete Pavement.

STATE PROJECT 1451. MARKSVILLE-MANSURA HIGHWAY, Avoyelles Parish. Length 6.0 miles. Concrete Pavement.

HARRY B. HENDERLITE,  
State Highway Engineer.  
O. K. ALLEN, Chairman,  
Louisiana Highway Commission.

Bids close December 20, 1929.

### Sewers

Columbus, Ga.

Sealed bids will be received by the City Manager of Columbus, Georgia, until ten o'clock A. M., December 20, 1929, at which time bids will be publicly opened in the Commission Chamber said City for sewers as follows:

1. Combined sewer of concrete and brick from 8th Street to River in 10th Avenue, 5th St. and 5th Avenue.

Approximate quantities are:

Excavation ..... 48,000 Cu. Yds.

Concrete and Brick Sewer

from 48 inch to 72 inch

diameter with necessary

appurtenances ..... 6800 Lin. Ft.

Bidders bond or certified check required

\$10,000.00.

Plans and specifications may be obtained

from City Engineer for \$5.00 refunded upon

return.

2. Combined sewer of concrete pipe from

point west of 1st Avenue in 28th Street

to River Outfall.

Approximate quantities are:

Earth Excavation & Fill.... 2400 Cu. Yds.

Rock Excavation ..... 160 Cu. Yds.

Concrete Pipe Sewer—

18 inch Diam. .... 768 Lin. Ft.

Class A Concrete ..... 62 Cu. Yds.

Concrete pipe connections 8

inch—15 inch ..... 145 Lin. Ft.

Manholes complete ..... No. 5

Bidders bond or certified check required

\$500.00.

Plans and specifications may be obtained

from City Engineer for \$2.00 refunded on return.

Each bid must be made out on the standard form furnished by the City and be accompanied by a certified check or bidders bond for amounts stated above. The successful bidder will be required to furnish bond, as required by law, amount equal to total contract price.

The City reserves the right to reject any or all bids.

The full text of legal advertisements covering above projects appear in the Columbus Daily Ledger, December 8, 9, 10, and 16, 1929.

H. B. CRAWFORD,  
City Manager.

Bids close January 14, 1930.

### Locks in New Basin and Bayou St. John

BOARD OF LEVEE COMMISSIONERS,  
ORLEANS LEVEE DISTRICT,  
NO. 201 NEW COURT BUILDING,  
NEW ORLEANS, LOUISIANA.

New Orleans, La., November 13th, 1929.

Sealed proposals will be received at the office of the Board of Levee Commissioners of the Orleans Levee District, New Orleans, Louisiana, up to 8 P. M. JANUARY 14th, 1930, and then publicly opened for furnishing all labor, material and equipment necessary for the construction of Locks in New Basin Canal South of Robert E. Lee Boulevard and in Bayou St. John, South of Hibernia Avenue.

A deposit of \$10,000.00 (Ten Thousand Dollars) in cash or certified check will be required with each proposal. No bid bond will be accepted. A surety bond to the amount of 50% of the cost of the contract will be required with notarial contract.

Plans and specifications are on file in the office of the Board of Levee Commissioners of the Orleans Levee District, Suite No. 201 New Court Building, or No. 606 Common Street, New Orleans, Louisiana and will be furnished to prospective bidders upon application.

The right is reserved to reject any or all bids and to waive informalities.

Plans and specifications will be furnished to prospective bidders upon payment of \$25.00 (Twenty-five Dollars) cash or certified check, which will not be refunded.

For further information, address W. B. Davey, Acting Chief Engineer.

A. L. SHUSHAN,  
President.

CHAS. J. DONNER,  
Secretary.

## CLASSIFIED OPPORTUNITIES

### MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

FOR SALE, or capitalize. Talc, pure white, eight feet vein. Kaolin, Mica, Marble, Iron, Gold. W. A. Owenby, Mineral Bluff, Ga.

IF YOU want to buy or lease mineral property write what is needed.  
LIBERTY REALTY CO.,  
Roanoke, Va.

EXCHANGE 225 acres timber for hotel or small farm; 225 acres unencumbered timber and mineral land two miles from R. R. station, on State highway in West Virginia, for unencumbered hotel or small farm. OWNER, CENTRAL HOTEL, Point Pleasant, Penna.

#### CLAY PRODUCTS

FOR SALE—Major clay products plant site, on the Gulf Coast, near New Orleans. Ample, tested, imperishable mineral materials, for making good red common brick, face brick, tile, piping and building wares. Favorable transportation facilities give territory control. Get Booklet.

OWNER, Box 24, Warrior, Ala.

### Rates, Terms and Conditions

RATES: 30 cents a line each insertion. Minimum space accepted, four lines. In estimating the cost allow six or seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made.

#### Rates for Special Contract:

100 lines 230 a line

300 lines 260 a line

500 lines or more 250 a line

TERMS: For transient advertising cash with order; check, postoffice or express money order or stamps accepted.

On special contract advertising bills are rendered monthly, covering space used each month, payable within ten days.

CONDITIONS: No patent medicine, oil or mining stock advertisements or questionable or undesirable advertisements will be accepted. The assistance of our readers in excluding undesirable advertisements is requested. No display type used.

### MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

#### MINERAL LANDS WANTED

WANTED—To hear from parties having mineral properties for sale. Also any large tracts of land. UNITED MINERALS CO., Roanoke, Va.

#### GRANITE QUARRY

SOUTH CAROLINA EXTENSIVE ROAD PROGRAM involving expenditure of about \$100,000,000 in next five years, will exhaust present capacity of quarries making crushed stone in the state. If interested in securing quarry of high grade granite, at 10 cents per ton, convenient to railroad, with water and electric power available, write for details to EUNITA MANNING RUFF, care U.S. Post Office, Columbia, S.C.

#### TIMBER AND TIMBER LAND

FOR SALE—4 million ft. virgin hardwood timber, 2 miles from B. & O., near Piedmont, W. Va. Easily logged—reasonable price—easy terms. Box 355, Mt. Lake Park, Md.